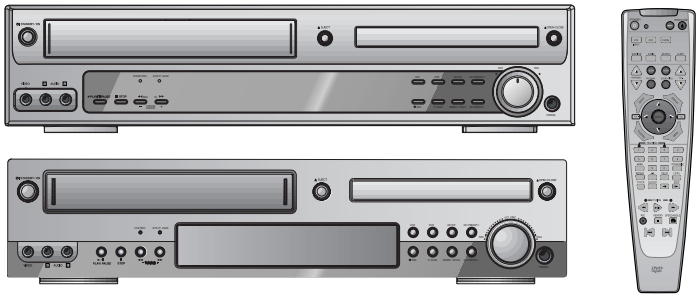
S/M No. : VCR9ADPEN0

Service Manual

DVD COMBO RECEIVER

MODEL : DR-C912B/913B
DR-C922B/923B



✔ Caution :

In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information,please refer to PPL(Parts Price List) in Service Information Center (http://svc.dwe.co.kr).

DAEWOO ELECTRONICS Corp.

http : //svc.dwe.co.kr Jan., 2004

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SPECIFICATIONS

Power Input :120 Volts AC 60Hz
Power Consumption :95Watts
Operating Temperature :5 degree C to 35 degree C (41 degree F to 95 degree F)
Storage Temperature : -30 degree C to 65 degree C (-22 degree F to 149 degree F)
Installation condition :Horizontal / Relative humidity under 80%
Weight : 6.45 kg (NET)

Dimensions : 430mm Wide X 91mm High X 355.5mm Deep

Recording System
4-head Hi Fi : Four video record/playback heads
Rotary helical scan/luma: FM recording/chroma: converted subcarrier phase shifted recording
Two audio record/playback heads
Rotary helical scan, 2 channels FM recording
Received channels :VHF: 2-13 CH / UHF: 14-69 CH / Cable: 1-125
Video Signal : EIA standard; NTSC color
Antenna : 75 ohm input impedance
Video Signal Level : 1Vp-p (140 IRE standard)
Video output (common use of DVD and VCR):
VIDEO output terminal, 1Vp-p (140 IRE standard)
Video output (DVD only): S-VIDEO output
(75 ohm In load Y: 1Vp-p, C:0.286Vp-p)
COMPONENT Progressive output
(75 ohm In load Y:1Vp-p, Pb:0.7Vp-p Pr:0.7Vp-p)

audio Input : -8.8dBm
Audio output (common use of DVD and VCR) : Audio output terminal (2 kinds): -8.8dBm(VCR), 2.0Vrms(DVD)
Audio output (DVD only) : Analogue Audio output(2CH):2.0Vrms

Audio Input Impedance : More than 47k ohm
Audio Output Impedance : Less than 1.5k ohm
VHF output : 3 or 4 CH
Playable tape : Very high dense tapes with VHS marks
Playable disc : DVD,VIDEO-CD,CD(12mm) CD(8mm),MP3,CD-R,CD-RW
Tape Speed : SP: 33.35mm/sec.
SLP : 11.12mm/sec.
Maximum Recording Time: T-60: 3 hours/SLP mode
T120: 6 hours/SLP mode
Fast Forward/Rewind Time : <130sec (T-120 tape)
Tuning System : Auto Program/Cable Compatible/Frequency Synthesis (FS)
Clock display : 12 hrs AM/PM
Time Recording : 8 programs a year
Persistence in power failure : 1 min
Video S/N (VCR) : Over 45dB(Standard recording)
Resolution (VCR) : Over 220 lines (Standard recording)
Resolution (DVD) : Over 500 lines (DVD Disc PLAY)
Audio (VCR) : Over 68dB(Hi-Fi),over 40dB(Mono)
Audio (DVD) : 100dB
Audio dynamic range : 70dB

Note : Specifications are subject to change without notice.

CLEANING AND LUBRICATION

Cleaning and Lubrication

A. Cleaning the Tape Transport System
The following parts should be cleaned after every 500 hours of use.
- TENSION POLE
- S-GUIDE POST
- FE HEAD
- S GUIDE ROLLER
- S-SLANT POLE
- VIDEO HEAD/DRUM
- T-SLANT POLE
- T-GUIDE ROLLER
- AC HEAD/AE HEAD
- T-GUIDE POST
- CAPSTAN SHAFT
- PINCH ROLLER

Note: After cleaning with alcohol, allow the parts to dry thoroughly before using a cassette tape.

B. Cleaning the Drive System
The following parts should be cleaned after every 500 hours of use.
- REEL TABLE
- T MAIN BRAKE
- S MAIN BRAKE
- T MAIN BRAKE
- CAPSTAN FLYWHEEL/PULLEY
- REEL PULLEY

C. Lubrication points
The following parts should be cleaned and lubricated after every 500 hours of use. Apply one (1) or two (2) drops of oil. Refer to the "Replacement Parts List" for the stock number of the recommended oil.
- S REEL TABLE POST
- T REEL TABLE POST
- IDLER PULLEY

AC Millivolt Meter
Sensitivity: 1.0mVAC–400VAC

Dual-Trace Triggered Oscilloscope–with Lo–Cap (X10) and Direct Probes.
Response: DC–20MHz
Sensitivity: 5mV/div.
Max. Sweep Rate: 0.1µsec./div.

Frequency Counter–7 digits
Sensitivity: 25mV-5V
Range: 50Hz–100MHz

DVM
Range: 0.1VDC–1000VD
Accuracy: 0.5%

NTSC Video Signal Generator–Must provide 1V p-p negative sync video across a 75 ohm load and produce standard NTSC 75% saturated color bars with a 100% white window.

DC Power Supply
Range: 0-50V, 2A well filtered.

Temperature Controlled Soldering Station–Grounded tip (Tip temperature: 500°F-600°F).

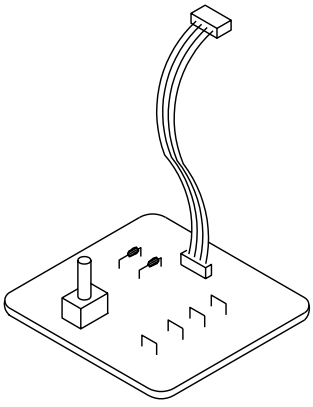
Note: 500 °F Maximum for leadless components.

AC Variac–Continuously variable.

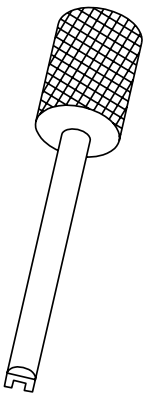
THE SERVICE FIXTURE

FIXTURE ITEM	DESCRIPTION	P/N
Path Adj Fixture	Use for X-position adjust/Tape path alignment	97PB396000
Special Driver	Use for X-position adjust/Tape path alignment	

Path Adj Fixture

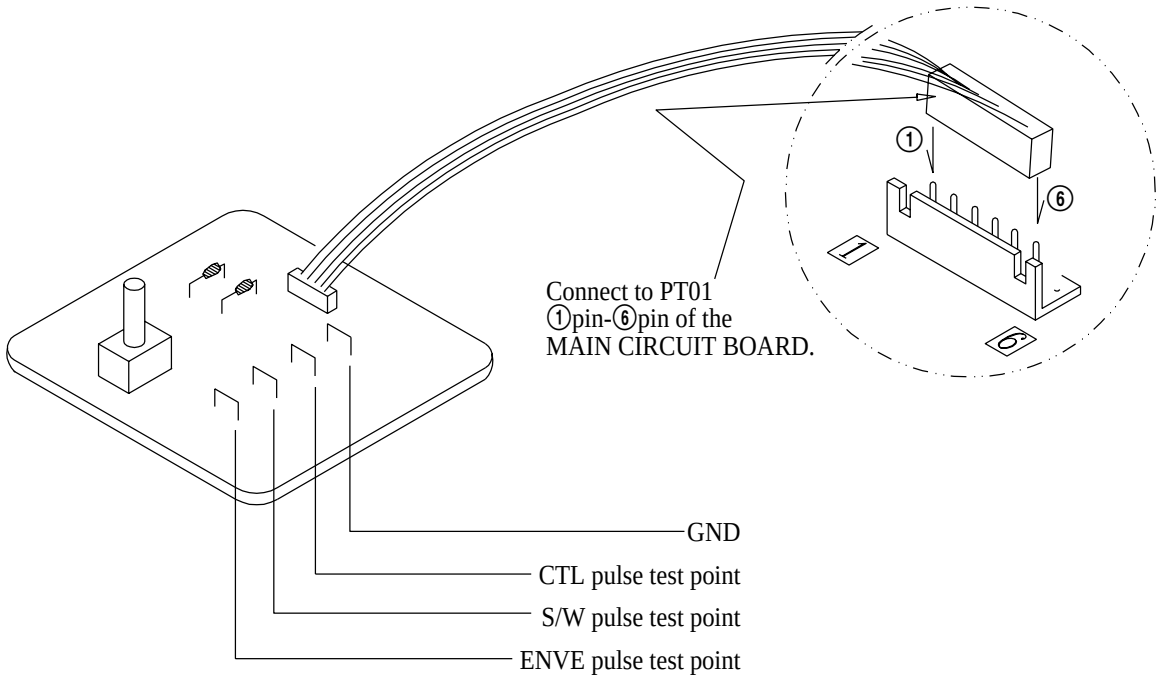


Special Driver



PATH FIXTURE CONNECTION/TEST POINT IDENTIFICATION

Refer to the adjustment of the tape transporting system.



LEADLESS (CHIP) COMPONENT REMOVAL INSTRUCTION

• The following procedures are recommended for the replacement of the leadless components used in this unit.

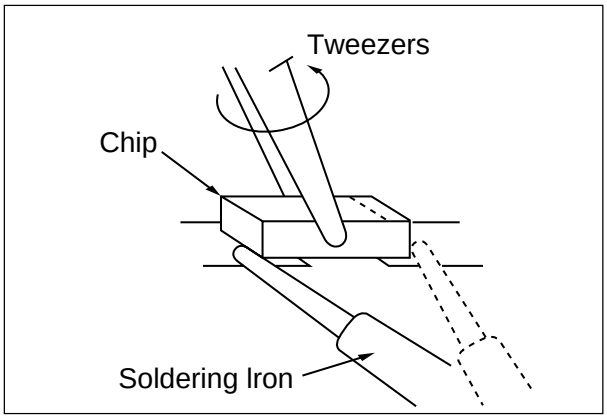
1. Preparation for replacement

a. Soldering Iron
Use a pencil-type soldering iron that uses less than 30 watts.
b. Solder
Eutectic solder (Tin 63%, Lead 37%) is recommended.
c. Soldering time
Do not apply heat more than 4 seconds.
d. Preheating
Leadless capacitor must be preheated before installation. (130°C~150°C, for about two minutes).

Note:
a. Leadless component must not be reused after removal.
b. Excessive mechanical stress and rubbing of the component electrode must be avoided.

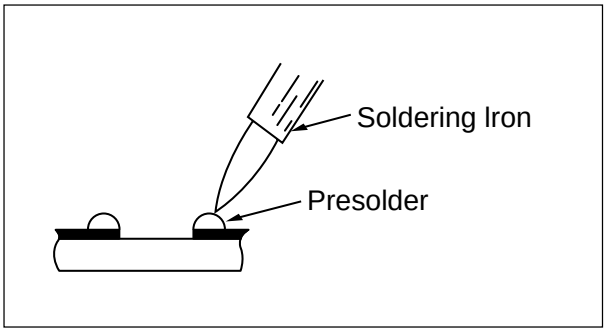
2. Removing the leadless component (Resistors, Capacitors)
Grasp the leadless component body with tweezers and alternately apply heat to both electrodes. When the solder on both electrodes is melted, remove leadless component with a twisting motion.

Note:
a. Do not attempt to lift the component off the board until the component is completely disconnected from the board by a twisting action.
b. Take care not to break the copper foil on printed board.



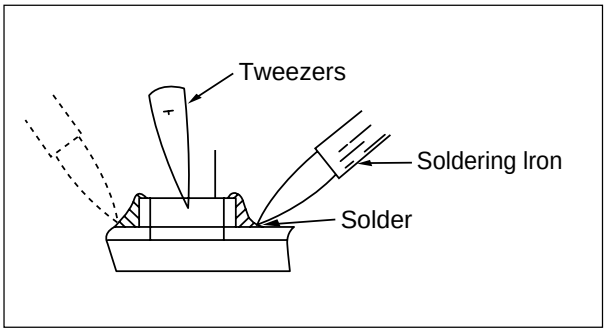
3. Installing the Leadless (chip) Component

1) Presolder the contact points of the circuit board.



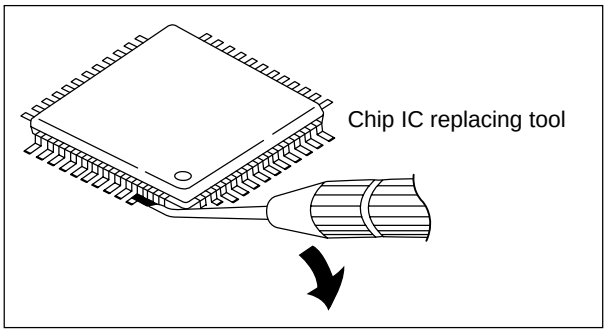
2) Press the part downward with tweezers and solder both electrodes as shown below.

Note:
Do not glue the replacement leadless component to the circuit board.



4. Removing of Flat ICs(Recommended procedure)

1) For removing solder chips from IC's pins, use a solder remover or a wiry solder absorber.
2) Heat the IC's tips evenly by moving the chip IC replacing tool around them, and detach the IC's leads with a tool in the way of using a lever.
3) Do not reuse ICs removed once (Discard them)



LEADLESS (CHIP) COMPONENT IDENTIFICATION

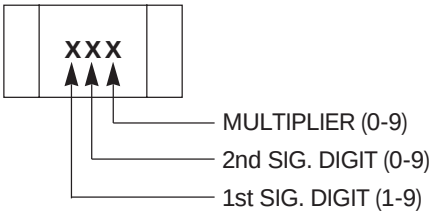
1. Check the followings before S.M.D Troubleshooting

- Cracked or Chipped Component Body
- Cracked or Separated Solder Joints
- Peeling end Terminations or Fractured Leads
- Rejection of Solder from Copper Pads or Component
- Foreign Matter on Copper Pads
- Solder Bridges

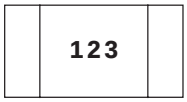
2. S. M. D (Surface Mounted Devices) Identification

1) Chip Resistor Identification

* Standard Chip Resistor Code



Examples



= $12x10^3$ (1000) = 12000Ω
= 12KΩ

= 47x10° (1) = 47Ω

2) Chip Capacitor Identification
There is no identification of chip capacitor

REMARK Leadless (CHIP) Components are identified on schematic by means of "(C)" adjacent to symbol numbers.

ABBREVIATIONS

A	A or AUD	: Audio
	A.E.	: Audio Erase
	AC	: Alternating current
	ACC	: Automatic Color Control
	ACS	: Auto Clock Set
	AFC	: Automatic Frequency Control
	AFT	: Automatic Fine Tuning
	AGC	: Automatic Gain Control
	ALC	: Automatic Level Control
	AM	: Amplitude Modulation
	AMP	: Amplifier
	ANT	: Antenna
	APC	: Automatic phase control
	ASS'Y or AS	: Assembly
	AUTO	: Automatic
	AV or A/V	: Audio/Video
B	B	: Base, Burst
	BAL	: Balance
	BGP	: Burst Gate Pulse
	BPF	: Bandpass Filter
	BW or B/W	: Black and White
C	C	: Capacitor, Chroma, Collector
	C Rotary	: Color Rotary
	C-Sync	: Composite Synchronization
	CA	: Commercial Advance
	CAP	: Capstan
	CAR	: Carrier
	CATV	: Cable Television
	CBC	: Cable Box Control
	CCD	: Charge Coupled Devices
	CFG	: Capstan Frequency Generator
	CH	: Channel
	CHAR	: Character
	CHROMA	: Chrominance
	CLK	: Clock
	CNR	: Color Noise Reduction
	COMB	: Comb Filter
	COMP	: Comparator, Composite, Compensation
	CONV	: Converter
	CST	: Cassette
	CTL	: Control
	CUR	: Current
	CV	: Composite Video
D	D	: Drum, Digital, Diode, Drain
	DC	: Direct Current
	DD	: DC-DC Convert
	DEEM or DEEMPH	: Deemphasis
	DEMOD	: Demodulator
	DET	: Dectector
	DEV	: Deviation
	DFG	: Drum Frequency Generator
	DOC	: Dropout Compensator
	DS	: Drain and Source
	DSSC	: Digital Satellite Set Control
	dB	: Decibel
E	EDS	: Extended Data System
	ENVE	: Envelope
	E/V	: Envelope/Vertical Sync
G	GEN	: Generator
	GND	: Ground
H	H	: High, Horizontal
	HA or HEAD AMP	: Head Amplifier (PreAmp)
	HD	: Horizontal Drive, Head
	HOR	: Horizontal
	HZ	: Hertz
I	I/O	: Input/Output
	IC	: Intergrated Circuit
	IF	: Intermediate Frequency
	INS	: Insertion
	IR	: Infrar Red
K	KIL	: Killer
L	L	: Low, Left, Coil
	LIM	: Limit
	LM	: Loading Motor
	LP	: Long Play
	LPF	: Low Pass Filter
M	MA	: Movie Advance
	MAX	: Maximum
	MIN	: Minimum
	MIX	: Mixer, Mixing
	MMV	: Monostable Multivibrator
	MOD	: Modulation, Modulator
	MPX	: Multiplex
	M/T or MTR	: Motor
N	NC	: None Connection
	NC or NOICAN	: Noise Canceller
	NL	: None linear
	NR	: Noise Reduction
O	OSC	: Oscillator, Oscillation
	OSD	: On Screen Display
	OSP	: On Screen Program
	OTR	: One Touch Record
P	P-P	: Peak-to-Peak
	PB	: Playback
	PC	: Photo Coupler
	PCB	: Printed Circuit Board
	PG	: Phase Generator

	PIC	: Picture
	PIF	: Picture Intermediate Frequency
	PLL	: Phase Locked Loop
	PS	: Phase Shift
	PWM	: Pulse Width Modulator
	PWR	: Power
Q	Q	: Transistor
	QV	: Quasi Vertical
R	R	: Resistor, Right
	REC	: Recording
	REF	: Reference
	REG	: Regulated, Regulator
	REMOCON	: Remote Control (Unit)
	REV	: Reverse
	REW	: Rewind
	RF	: Radio Frequency
	ROT	: Rotary
S	SEP	: Separation
	SHARP	: Sharpness
	SI or S IN	: Serial Input
	SO or S OUT	: Serial Output
	SP	: Standard Play
	STB	: Strobe
	SVC	: Service
	SW or S/W	: Switch or Switching Pulse
	SYNC	: Synchronization
	SYSCON	: System Control
T	TJ	: Test Jump
	TP	: Test Pin
	TR	: Transistor
	TRANS	: Transformer
	TRK	: Tracking
	TU	: Tuner
U	UHF	: Ultra High Frequency
V	V	: Volt, Vertical
	V-SYNC	: Vertical Synchronization
	VCA	: Voltage Controlled Adjustor
	VCO	: Voltage Controlled Oscillator
	VCR	: Video Cassette Recorder
	VD	: Vertical Drive
	VERT	: Vertical
	VGC	: Voltage Gain Control
	VHF	: Very High Frequency
	VR	: Variable Resistor or Volume
W	W	: Watt
	W/D	: White and Dark
	WF	: Wave Form
	WHT	: White
X	X-TAL	: Crystal
Y	Y FM	: Luminance FM Signal
	Y Y/C	: Luminance/Chrominance

INSTRUMENT DISASSEMBLY

Perform all disassembly procedures in the order presented. When reassembling, use the reverse procedure. Make sure that all leads/wiring are routed correctly when reassembling.

1. LEGS REMOVAL

1. Remove screw(2) holding the legs.
2. Remove the the legs in the direction of the arrow.

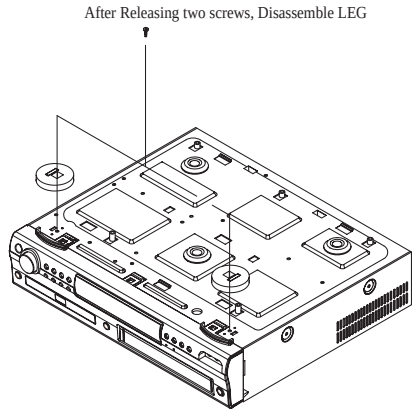


Fig. 1 - Legs Removal

2. TOP COVER REMOVAL

1. Remove screw(7) holding the top cover.
2. Carefully lift the back of top cover and slide it the rear to remove it.

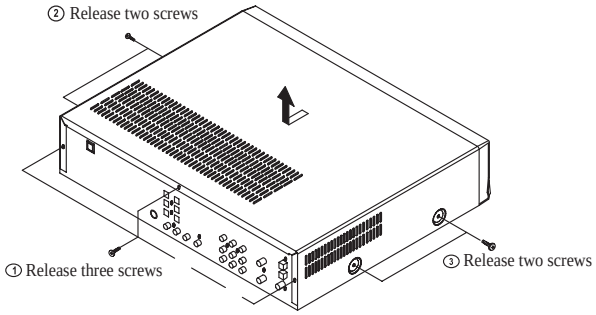


Fig. 2 Top Cover Removal

3. PANEL FRONT REMOVAL

1. Release three(3) taps holding the panel front.
2. Remove the panel front.

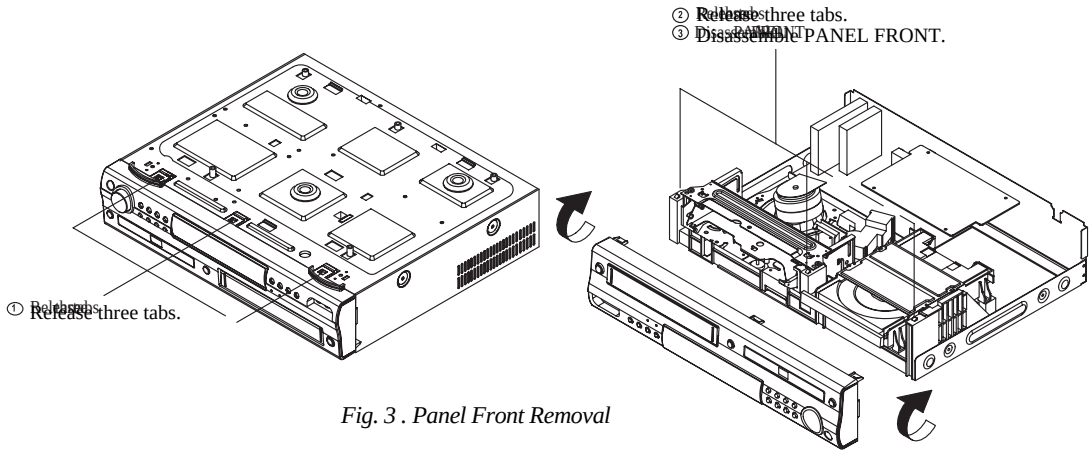


Fig. 3 . Panel Front Removal

4. LOGIC PCB REMOVAL

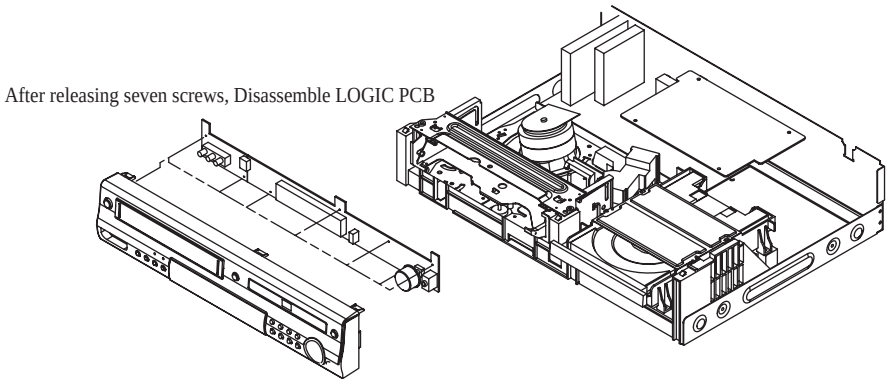


Fig. 4 . LOGIC PCB Removal

5. DECK ASSEMBLY & LOADER,DVD-BOARD,POWER-BOARD REMOVAL.

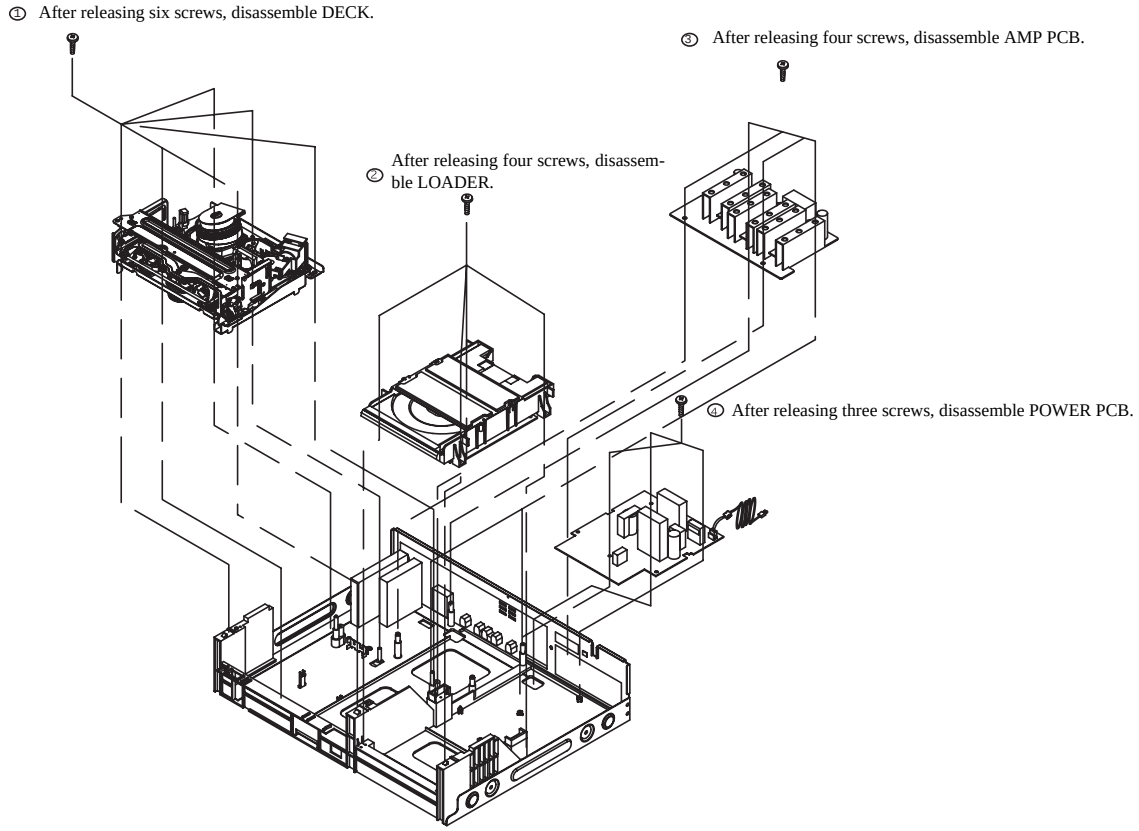

① After releasing six screws, disassemble DECK.
③ After releasing four screws, disassemble AMP PCB.
② After releasing four screws, disassemble LOADER.
④ After releasing three screws, disassemble POWER PCB.

Fig. 5 . DECK & LOADER,POWER BOARD Removal

6. MAIN BOARD REMOVAL

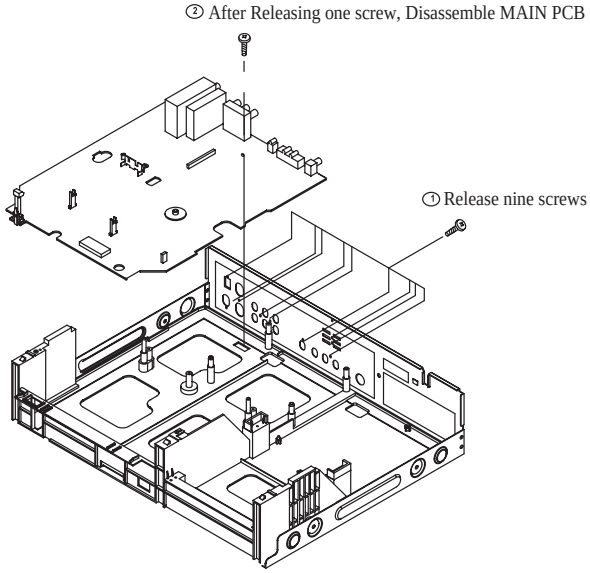


Fig. 6. Main Board Removal

7. CHASSIS MAIN REMOVAL

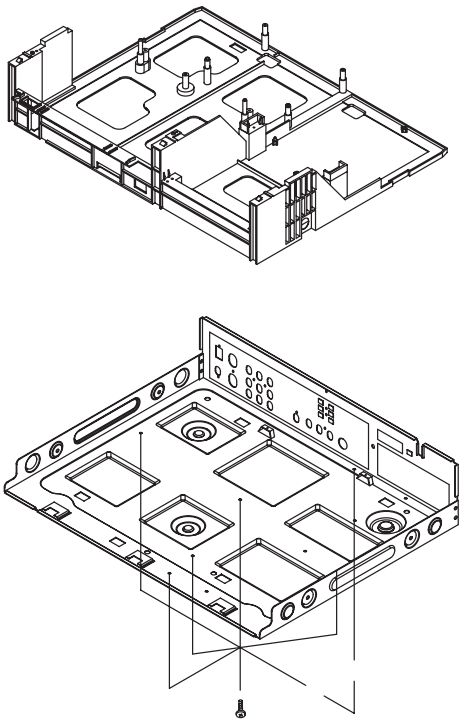
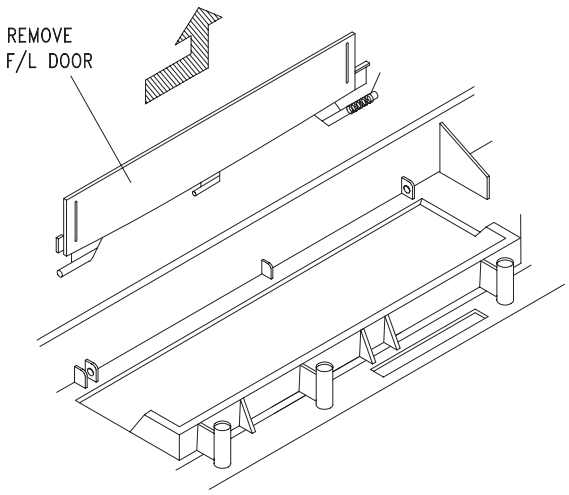


Fig. 7. Chassis Main Removal

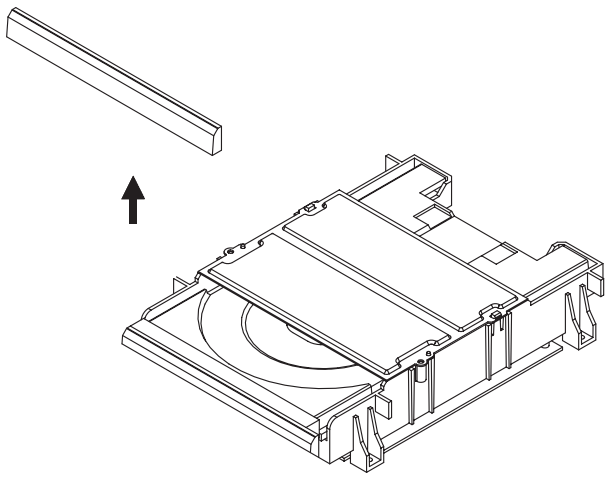
F/L Door Removal

1. Open the F/L door 90 degrees.
2. Remove the F/L door in the direction of the arrow.



DOOR DVD REMOVAL

1. Remove the F/L door in the direction of the arrow.



DESCRIPTION OF THE MECHANISM

1.1 Characteristic of T6-DECK MECHANISM

1) T6-MECHA follows the VHS and the NTSC standard.

2) T6-MECHA uses 3 MOTORS (DRUM MOTOR, CAPSTAN MOTOR, L/C MOTOR).

3) T6-MECHA uses L/C Motor to drive FRONT LOADING.

4) T6-MECHA uses 4-BIT MODE signal to recognize each MODE.

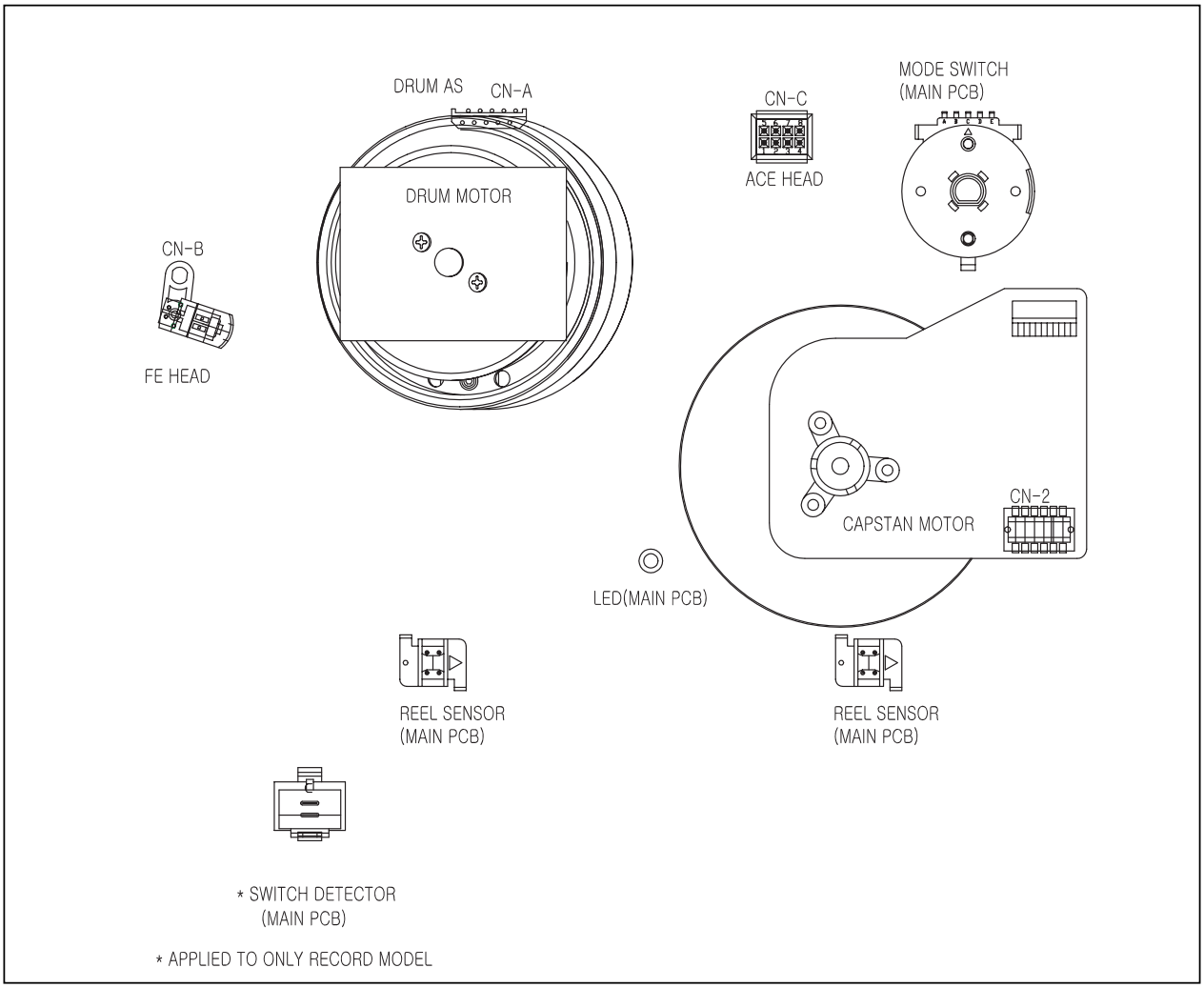
This 4-BIT MODE signal is generated from the cam switch driven by the L/C MOTOR.

5) T6-MECHA has 7MODES (EJECT/INITIAL/REV/IDLE/PLAY,STOP,SLOW/BRAKE/FF&REW) operation.

6) T6-MECHA deduce the MODE changing time by adopting the full loading system which maintains the tape winding the drum circumference.

7) T6-MECHA can be separated from the main pcb, and be assembled with B-B type connector. This B-B type connectioning means that CAPSTAN MOTOR, LC MOTOR, AC HEAD, FE HEAD, DRUM are connected directly without using connector cable.

1.2 WIRE DIAGRAM
1.2.1 WIRE DIAGRAM



1.2.2 CONNECTOR PIN ARRANGEMENT

CN-A

4HEAD Hi-Fi	1	AFM-L
	2	AFM COMM
	3	AFM-R
2HEAD MONO	4	SL-L
	5	SP COMM
	6	SP-R
	7	GND
4HEAD MONO	8	EP-R
	9	EP COMM
	10	EP-L

CN-B

1	FE HEAD
2	FE HEAD

CN-C

1	AE HEAD
2	CTL(-)
3	GND
4	CTL(+)
5	A.HEAD(PB)
6	LM(+)
7	A.HEAD(REC)
8	LM(-)

CN-2

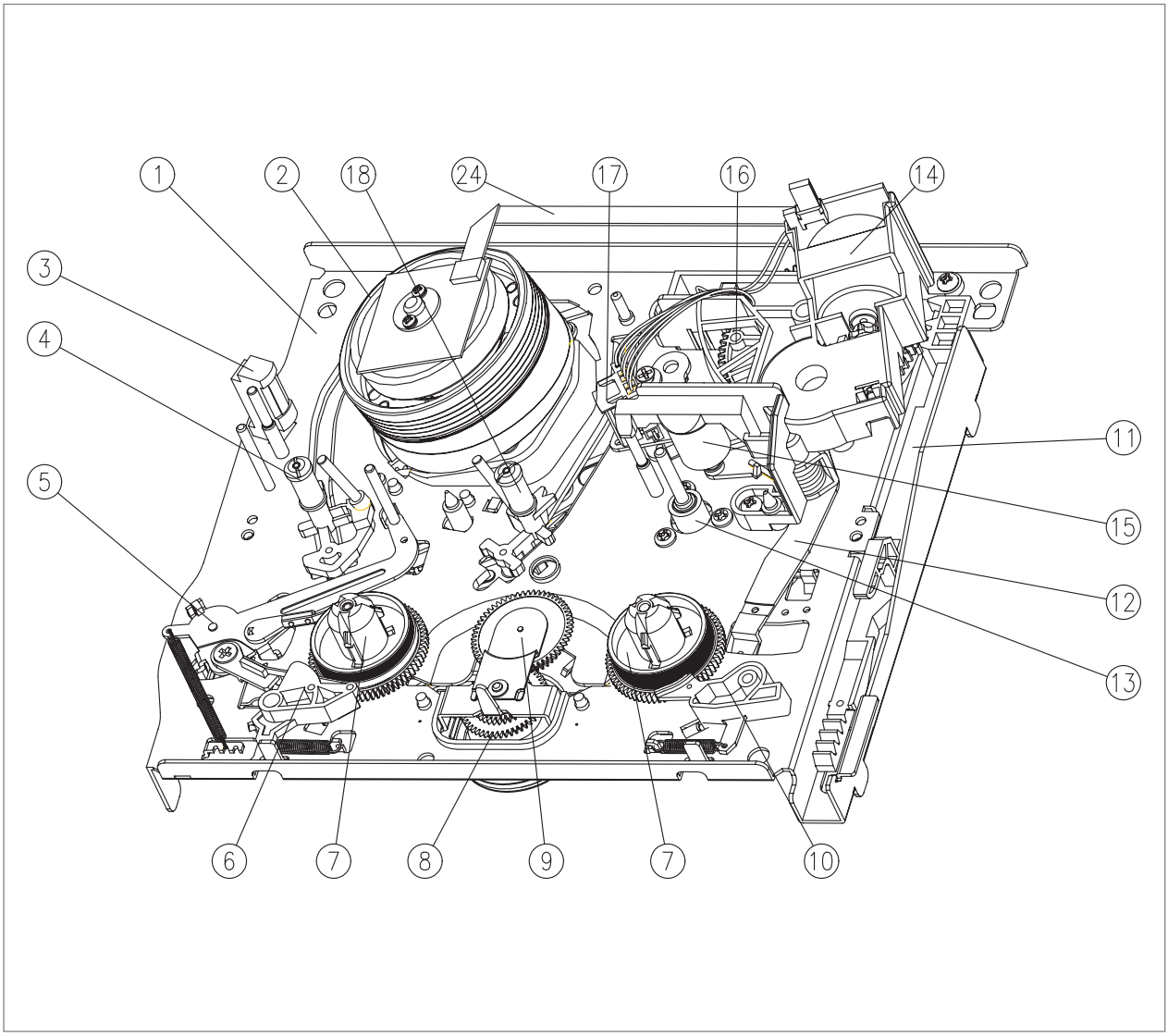
1	C-FG
2	Vcc1(CAP)
3	Vcc(5V)
4	F/R
5	V LIM
6	M-GND
7	S-GND
8	Vco2(D&L)
9	C-Vctl
10	L-in
11	D-PG.FG
12	D-Vctl

ASSEMBLY DIAGRAM AND A/S

2.1. ASSEMBLY DIAGRAM

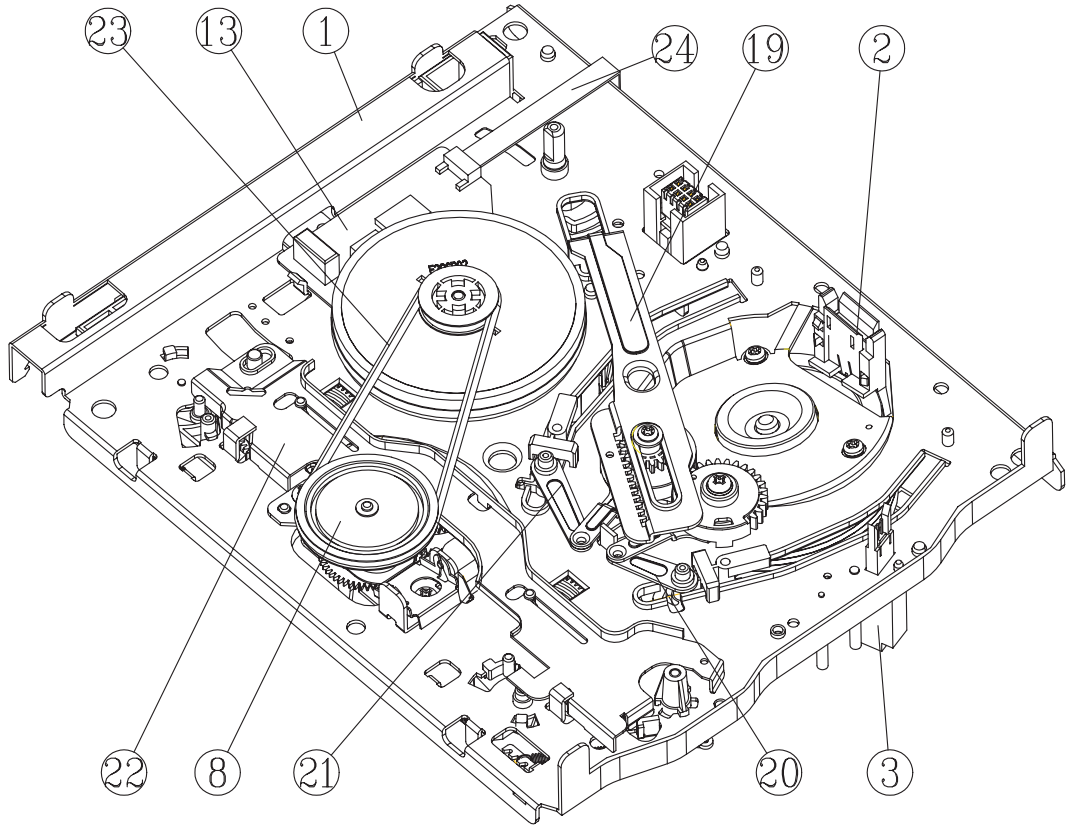
2.1.1. DECK ASSEMBLY DIAGRAM

A. UPPER VIEW



1 MAINBASE ASS Y	9 IDLER PLATE TOTAL ASS Y	17 AC HEAD ASS Y
2 DRUM ASS Y	10 T BRAKE ASS Y	18 T SLANT POLE ASS Y
3 FE HEAD	11 FL RACK	19 LOADING RACK
4 S SLANT POLE ASS Y	12 RELAY LEVER	20 L LOADING ASS Y
5 TENSION BAND ASS Y	13 CAPSTAN MOTOR	21 R LOADING ASS Y
6 S BRAKE ASS Y	14 LC BRKT ASS Y	22 CONNECT PLATE
7 REEL TABLE	15 PINCH LEVER TOTAL ASS Y	23 REEL BELT
8 REEL BRKT TOTAL ASS Y	16 CAM GEAR	24 CABLE FFC

B. LOWER VIEW



1 MAINBASE ASS Y	9 IDLER PLATE TOTAL ASS Y	17 AC HEAD ASS Y
2 DRUM ASS Y	10 T BRAKE ASS Y	18 T SLANT POLE ASS Y
3 FE HEAD	11 FL RACK	19 LOADING RACK
4 S SLANT POLE ASS Y	12 RELAY LEVER	20 L LOADING ASS Y
5 TENSION BAND ASS Y	13 CAPSTAN MOTOR	21 R LOADING ASS Y
6 S BRAKE ASS Y	14 LC BRKT ASS Y	22 CONNECT PLATE
7 REEL TABLE	15 PINCH LEVER TOTAL ASS Y	23 REEL BELT
8 REEL BRKT TOTAL ASS Y	16 CAM GEAR	24 CABLE FFC

2.1.2. FRONT LOADING ASSEMBLY DIAGRAM

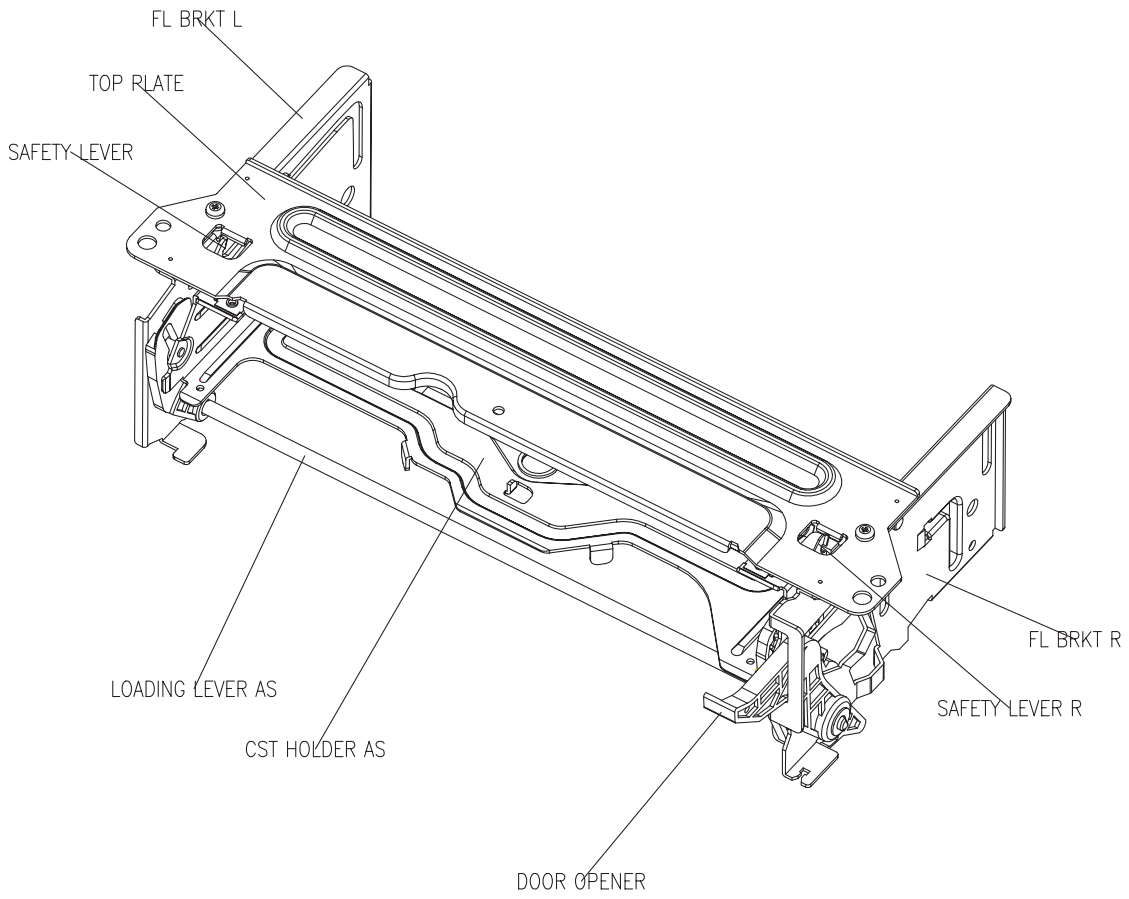


Fig.2

1 FL BRKT L
2 TOP PLATE
3 SAFETY LEVER
4 LOADING LEVER AS4
5 CST HOLDER AS
6 DOOR OPENER
7 SAFETY LEVER R
8 FL BRKT R

2.2 PERIODIC MAINTENANCE AND SERVICE SCHEDULE

2.2.1) Periodic maintenance and Service Schedule

A. In order to effectively maintain the excellent performance and fully utilize the features of this apperatus and to lengthen the life of mechanism and tapes, we strongly urge you to perform the periodic maintenance and inspection as described below.

¥ Following should be done after the substition of parts of deck or correction of deck failure.

B. Cleaning of the DRUM TOTAL ASS'Y

- Slowly turnning DRUM TOTAL ASS'Y, wipe the drum surface with clean cloth soaked in alchol. (Don t connect the power when turnning the UPPER DRUM)
- Don t wipe the Head-Tip vertically with cleaning cloths.

C. Tape transporting section cleaning

- Clean the tape transporting section with clean cloth soaked in alchol.

D. Driving section cleaning

- Clean the driving section with clean cloth soaked in alchol.

E. Everyday inspection

- Perform the maintenance and inspection periodically according to the number of use.
- Refer to the table 2.2.3.

a. Cleaning of Tape Transporting section

- The following parts shoule be cleaned after every 500 hours of use.

¥ TENSION POLE
¥ AC HEAD/AE HEAD
¥ VIDEOHEAD / DRUM
¥ FE HEAD
¥ CAPSTASN SHAFT
¥ T GUIDE ROLLER
¥ S SLANT POLE
¥ GUIDE POST
¥ T GUIDE POST
¥ T SLANT POLE
¥ S GUIDE ROLLER
¥ PINCH ROLLER

- Because the above part contact with video tape, they tend to be stained with dusts and foreign substances which make the bad effect on the picture and sometimes lead to the tape damage.
- Be sure to check the remained alchol during cleaning evaporated thoroughly before using a tape.

b. Cleaning of the driving section

¥ REEL TABLE
¥ CAPSTAN FLYWHEEL/PULLEY
¥ REEL PULLEY

B. Lubrication

¥REEL GEAR POST : After the cleaning the parts with alchol, lubricate them with one or twol drops of ool

¥S/T REEL TABLE POST : After the cleaning the parts with alchol, lubricate them with grease.

2.2.2) Cleaning and Lubrication

A. Cleaning of Tape Transporting section and driving section

2.2.3) Service Sechedule for each parts

Following parts should be checked according to the recommanded intervals

	Period Service (Hours)				
PART Name	1000	2000	3000	4000	5000
DRUM TOTAL ASS Y	★	○	★	○	★
CAPSTAN MOTOR		○		○	
L/C BRKT TOTAL ASS Y		○		○	
REEL BELT		○		○	
IDLER PLATE TOTAL ASS Y		○		○	
REEL TABLE			○		
T BRAKE ASS Y		○		○	
TENSION BAND ASS Y		○		○	
PINCH ROLLER ASS Y		★	○	★	
AC HEAD ASS Y			○		
FE HEAD					○
REEL BRKT TOTAL ASS Y		○		○	

★ : Check and replace if necessary. ○ : Replace

NOTE:
Independant of the above service shedule, Cleaning and lubrication and replacement of the belt sould be undertaken every 2 years.

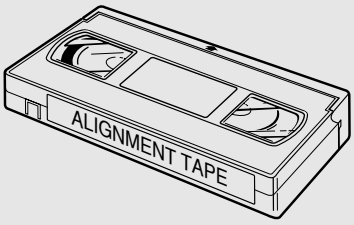
2.3 JIGS AND TOOLS

2.1 LIST OF JIGS AND TOOLS

NO	ITEMS	MODEL	FIG. NO	REMARKS
1	ALIGNMENT TAPE	NTSC: SP MONOSCOPE 7KHz SP COLOR BAR 1KHz (EP MONOSCOPE)	①	CHECKING OF THE TAPE TRANSPORTING SECTION
2	CLEANING TAPE (DAEWOO)	DHC-602V	②	CHECKING OF THE TAPE TRANSPORTING SECTION
3	CASSETTE TAPE TORQUE METER(KOKUSAI)	KT-300NV KT-300RV	③	MEASUREMENT OF THE REEL TORQUE
4	VHS SPINDLE HEIGHT GAUGE	TSH-V4	④	MEASUREMENT OF REEL TABLE HEIGHT
5	TENTELO METER (TENTELO)	T2-H7-UM	⑤	MEASUREMENT OF THE BACK TENSION
6	FAN TYPE TENSION METER	< 3KG	⑥	MEASUREMENT OF THE PRESSING FORCE FOR THE PINCH ROLLER
7	DENTAL MIRROR		⑦	CHECKING OF THE TAPE TRANSPORTING SECTION
8	+DRIVER		⑧-1	ASSEMBLY, DISASSEMBLY AND ADJUSTMENT
	ADJUSTMENT DR IVER		⑧-2	

2..2 A SKECTCH OF JIGS AND TOOLS

①



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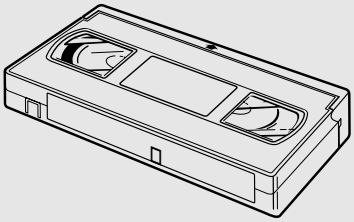
③



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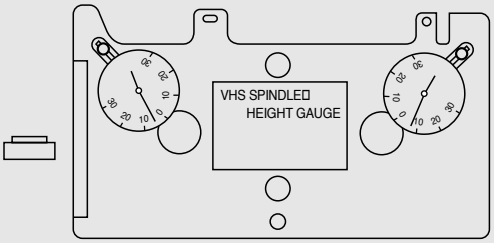

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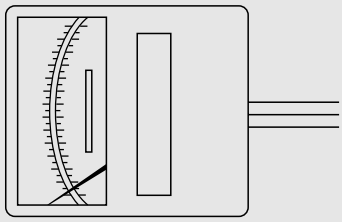

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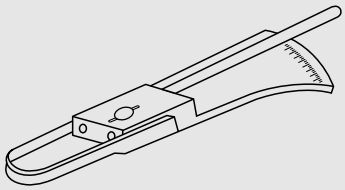

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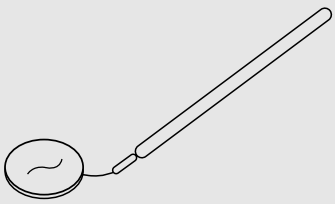

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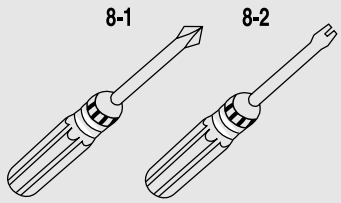


3. DISASSEMBLY AND REPLACEMENT

3.1 REMOVAL OF THE FRONT LOADING ASS'Y (FIG. 3.1)

NOTE:
REMOVE THE FRONT LOADING ASS'Y IN EJECT MODE

a. Unscrew the 2 screw holding the F/L.

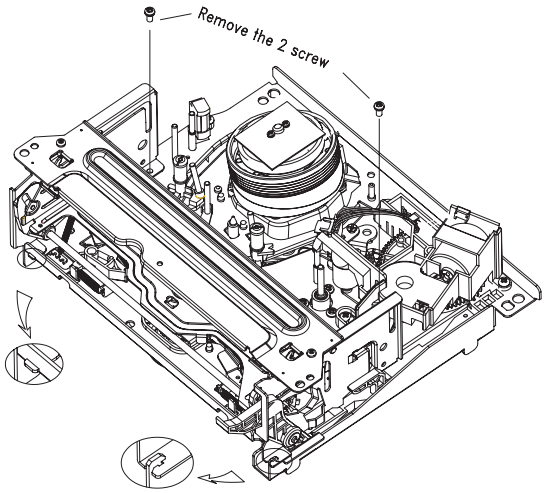


Fig. 3.1 Diassembly of the FRONT LOADING ASS'Y

b. Separate the F/L ASS'Y from the MAIN BASE settling down point by lifting the rear part of F/L(Screw hole).

3.2 DISASSEMBLY OF FRONT LOADING ASS'Y(FIG. 3.2~3.5)

a. Remove the one WASHER for holding the door opener and separtate F/L Assembly by moving the DOOR OPENER in the direction of arrow.

b. Remove the 2 screw holding the TOP PLATE and separate the CASSETT HOLDER ASS'Y by moving the

FL BRKT L and FL BRKT R in the direction of arrow (Fig. 3.2)

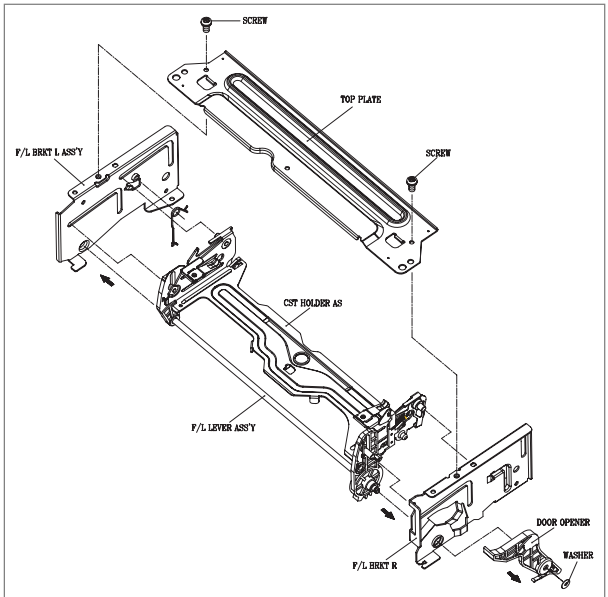


Fig. 3.2 Diassembly of the FRONT LOADING ASS'Y

c. Separate the LOADING LEVER ASS'Y by pressing the connection point from the CASSETTE HOLDER ASS'Y.(Fig. 3.3)

d. Remove the SAFETY SPRING connecting the SAFETY LEVER and CASSETTE HOLDER PLATE.(Fig. 3.3)

e. Remove the RELEASE SPRING connecting the RELEASE LEVER and SAFETY LEVER.(Fig3.3)

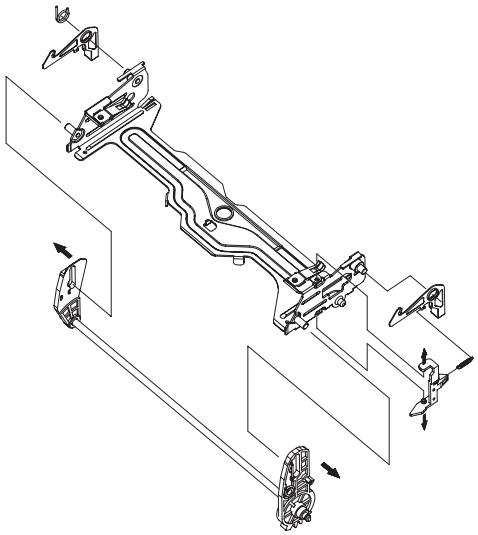


FIg. 3.3 Disassembly of the CASSETTE HOLDER Ass y

CAUTION:

Assemble the FRONT LOADING ASS'Y in the reverse step of diassembly. Confirm that two bosses on the left side of the CASSETTE HOLDER ASS'Y are inserted in the groove on the left side of the top plate. Insert two bosses on the right side of the CASSETTE HOLDER ASS'Y into the groove of the F/L BRACKET R.(Fig. 3.4)

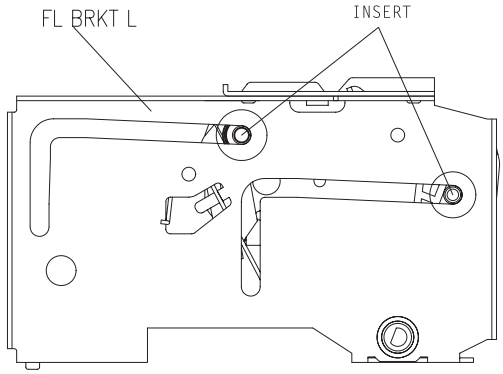


FIg. 3.4 Assembly of the FL Ass y

3. 3 Disassembly of DRUM Ass'y (Fig. 3.5)

a. Turn over the DECK MECHANISM and holding the DRUM TOTAL ASS'Y ② with hands , remove the 3 screw holding the drum total assembly with main base.

b. Separatet the DRUM TOTAL ASS'Y from the deck paying attention there is no damage on the surface of VIDEO HEAD and DRUM.

c. Assembly step is the reverse way of diassembly.

CAUTION:

¥After the assembly of the DRUM TOTAL ASS'Y, check out if DECK mecahnism operate smoothly and adjustment of tape transmission section is OK.

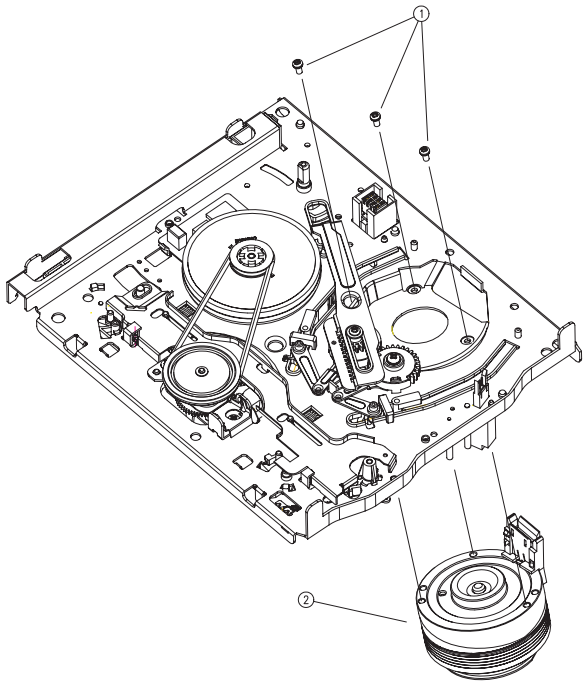


FIg. 3.5 Diassembly of DRUM ASS'Y

3. 4. DISASSEMBLY OF LOADING RACK, LOADING ASS'Y, S/T SLANT POLE ASS'Y(FIG. 3.6, 3.7)

a. Turn out the DECK MECHANISM and remove the LOADING RACK ② after unscrewing the SCREW .

b. Disintegrate the R LOADING AS ③ and L LOADING AS ④ .

c. Disintegrate the S SLANT POLE AS ⑤ and T SLANT POLE AS ⑥ by moving those part in arrow dircetion.

CAUTION:

¥Take care GUIDE ROLLER of S/T SLANT POLE AS and SLANT POLE not to be stained with grease during assembly.

¥ Refer to Fig. 3.7 in assembly.

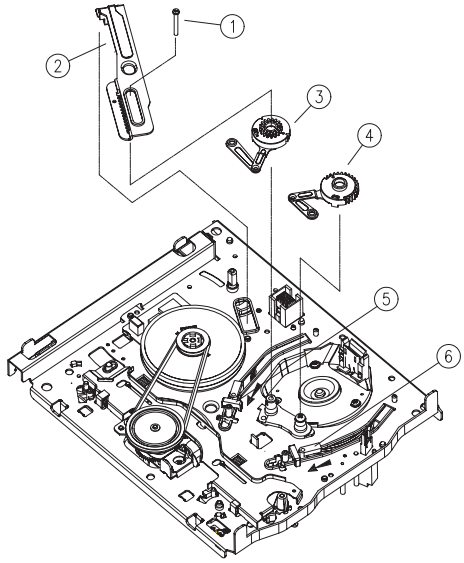


FIg. 3.6 Disassembly of the LOADING RACK, LOADING ASS Y and the SLANT POLE ASS Y

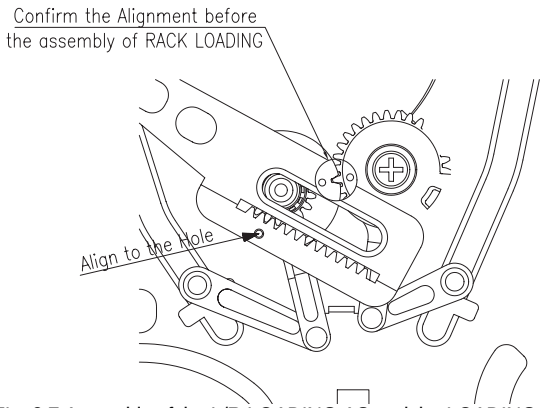


FIg. 3.7 Assembly of the L/R LOADING AS and the LOADING RACK

3. 5. DISASSEMBLY OF THE A/C HEAD ASS'Y (FIG. 3.8)

a. Remove the CONNECTOR ② from the AC HEAD ASS'Y, Watch out that there is no damage in the HEAD connecting PIN.

b. Separate the AC HEAD ASS'Y ① after unscrewing thescrew ③

CAUTION:

¥After the assembly, adjust the tape transmissionsection by refering to the chapter 5.

¥After the adjustment of the tape transmission section, paint the 3 adjustment screw with locking paint.

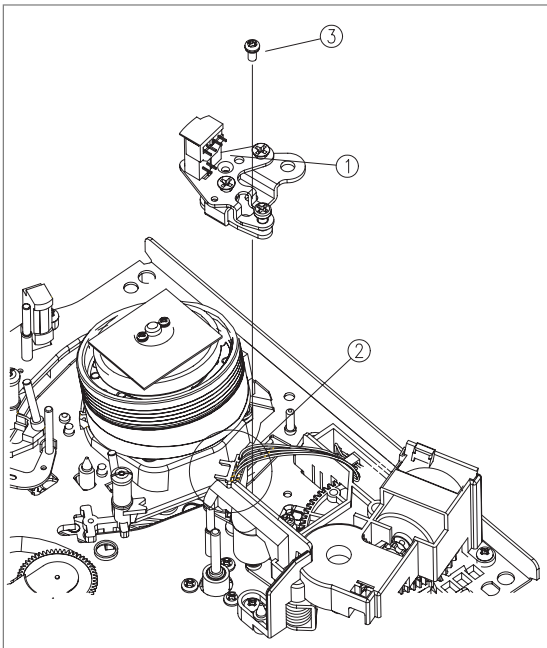


FIg. 3.8 Disassembly of the AC HEAD ASS Y

3. 6. DISASSEMBLY OF THE LC BRKT ASS'Y, PINCH LEVER TOTAL ASS'Y (FIG. 3.9)

a. Separate the LC BRKT Ass y ② after removing the 3 screws ①.

b. Separate the LC BRKT Ass y ② from the DECK MECHANISM.

c. Disintegrate the PINCH LEVER TOTAL Ass y ③.

CAUTION:

¥After the assembly of the PINCH LEVER TOTAL Ass y, adjust the tape transmission section by refering to the chapter 5.

¥There should be no pollution on the surface of PINCH ROLLER ④ with grease or other foreign material.

¥Make sure if the end of the PINCH SPRINGPINCH A is located at the end of trajectory of CAM GEAR B in assembly (Refer to Fig. 4.3)

3. 7. DISASSEMBLY OF THE CAM GEAR, RELAY LEVER, FL RACK (FIG. 3.9)

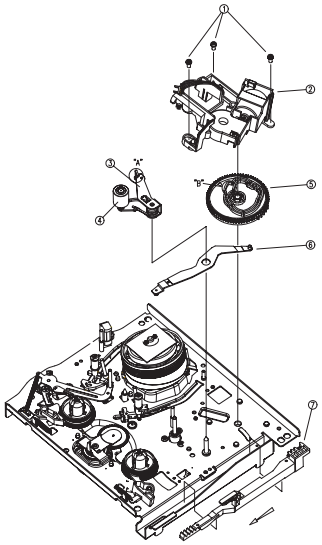
a. Separate the CAM GEAR ⑤ from the MAINBASE.

b. Separate the RELAY LEVER ⑥ from the MAINBASE.

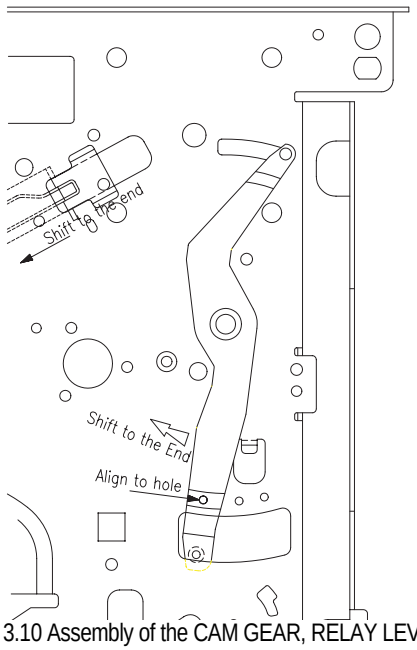
c. Separate the FL RACK ⑦ from MAINBASE by moving to the arrow direction.

CAUTION:

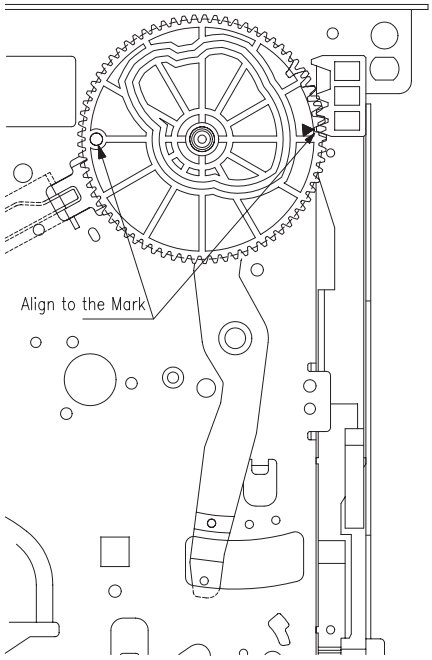
¥When reassembling, refer to Fig. 3.10, Fig. 3.11 and chapter 4.



Flg. 3.9 Disassembly of the LC BRACKET ASS Y from the PINCH LEVER TOTAL ASS Y



Flg. 3.10 Assembly of the CAM GEAR, RELAY LEVER



Flg. 3.11 Assembly of the CAM GEAR, FL RACK

3. 8 DISASSEMBLY OF THE S/T BRAKE ASS'Y(FIG. 3.12)

a. Unhook the S BRAKE SPRING ③ from the MAINBASE HOOK ①.

b. Remove the S BRAKE Ass y ② from the mainbase.

c. Remove the T BRAKE SPRING ⑥ from the MAINBASE HOOK ④.

d. Remove the T BRAKE Ass y ⑤.

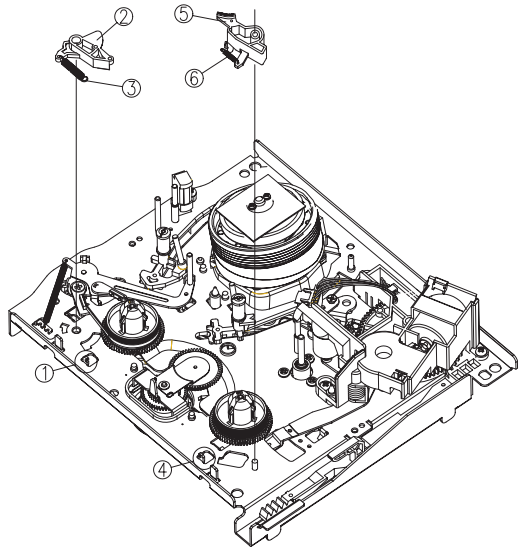


FIg. 3.12 Disassembly of the S/T BRAKE ASS Y

3. 9 DISASSEMBLY OF THE TENSION BAND ASS'Y(FIG. 3.13)

a. Unhook the TENSION SPRING ② from the MAINBASE HOOK ①.

b. Unhook the MAINBASE HOOK A and remove the TENSION BAND Ass y ③ from the mainbase.

CAUTION:

¥After the assembly of TENSION BAND Ass y on the mainbase, adjust the TENSION POLE location as shown in Fig. 3.14.

¥Avoid getting Grease, Oil or Foreign substance on the FELT of the BAND BRAKE.

¥Take care not to deform the MAINBASE HOOK A when separating the TENSION BAND Ass y ③.

3. 10 DISASSEMBLY OF THE CAPSTAN MOTOR (FIG. 3.13)

a. Separate the CAPSTAN MOTOR ⑤ after the removal of 3 screws ④ holding the capstan motor.

3.11 DISASSEMBLY OF THE FE HEAD (FIG. 3.13)

a. Remove the screw ⑥ and separate the FE HEAD ⑦ from the MAINBASE.

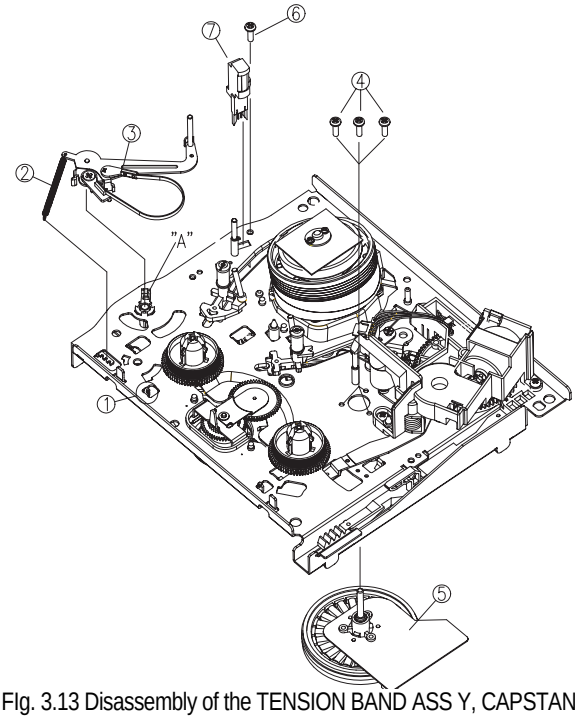


FIg. 3.13 Disassembly of the TENSION BAND ASS Y, CAPSTAN MOTOR and the FE HEAD

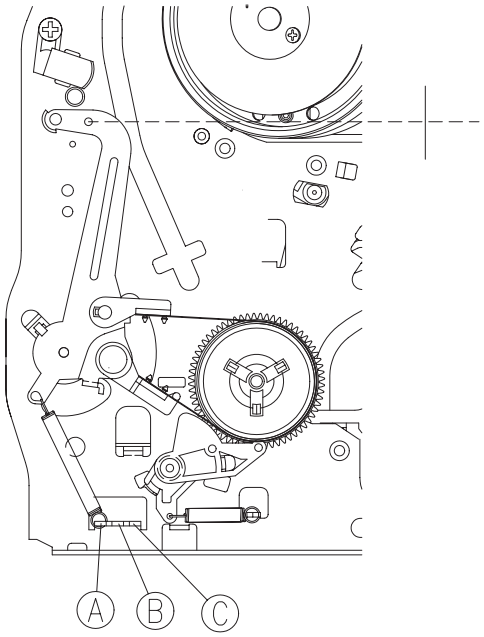


FIg. 3.14 Adjustment of the TENSION POLE POSITION

3.12 DISASSEMBLY OF THE REEL TABLE, IDLER PLATE TOTAL ASS'Y (FIG. 3.15)

a. Remove the POLY WASHER ① and separate the IDLER PLATE TOTAL Ass y ② from the mainbase.

b. Remove the REEL TABLE ④ from the REEL TABLE POST ③ of the MAINBASE.

CAUTION:

¥Take care not to deform the IDLER PLATE TOTAL Ass y ② when assembling and disassembling.

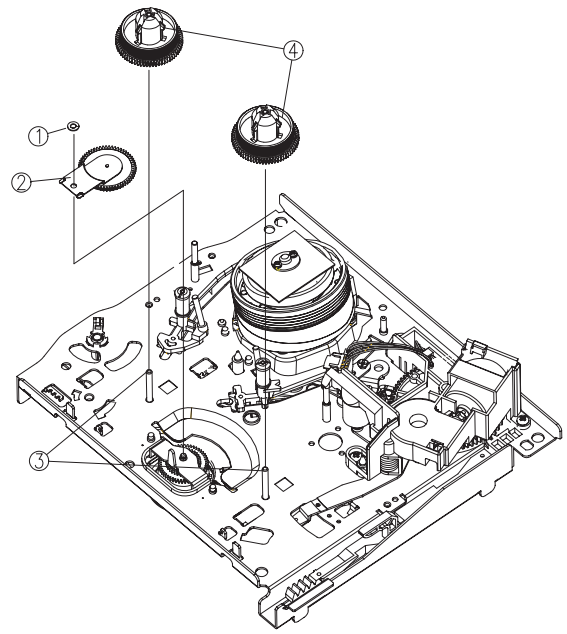


FIg. 3.15 Disassembly of the REEL TABLE and the IDLER PLATE TOTAL ASS Y

3.13 DISASSEMBLY OF THE REEL BRKT TOTAL ASS'Y, CONNECT PLATE (FIG. 3.16)

a. Turn over the DECK MECHANISM and remove 2 screws ①.

b. Remove the REEL BRKT TOTAL Ass y ② from the MAIN-BASE.

c. Separate the CONNECT PLATE ③ from the MAINBASE by pushing to the direction of the arrow.

CAUTION:

¥In diassembly of the REEL BRKT TOTAL ASS'Y, take care REEL BELT and REEL FELT not to be stained with GREASE, OIL, or foreign substance.

¥diassembly of the IDLER ASS'Y should be precede the diassembly of the REEL BRKT TOTAL ASSY.

¥Check the operation of the REEL BRKT TOTAL ASSY before assembly.

¥Check the operation of FF/REW, PLAY, CUE, and REVIEW work well and existence of noise during the mode operation..

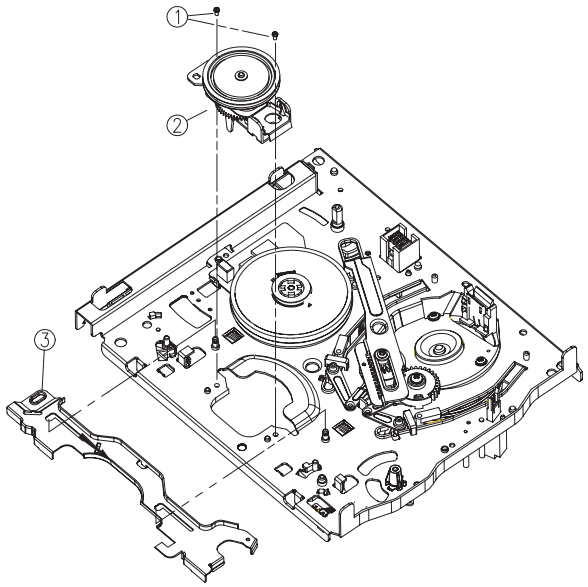


FIg. 3.16 Disassembly of the REEL BRKT TOTAL ASS Y and the CONNECT PLATE

4. 1 MECHANICAL ADJUSTMENT (FIG. 4.1~4.4)

In case of diassembly and reassembly for fixng the mecanical problem, check the following check point.

a. Make sure that the DATUM HOLE of the CAM GEAR is aligned wth the DATUM HOLE in the MAINBASE in the EJECT modew as shown in Fig. 4-1.

b. Make sure that the ending part A of the RELAY LEVER assembled on the CONNECT PLATE is aligned with the reference hole B of the MAINBASE as shown in Fig. 4.2.

c. The end point A of PINCH SPRINGPING of the LEVER TOTAL ASS'Y should be located within the trajectory B of the CAM GEAR. (Fig. 4.3)

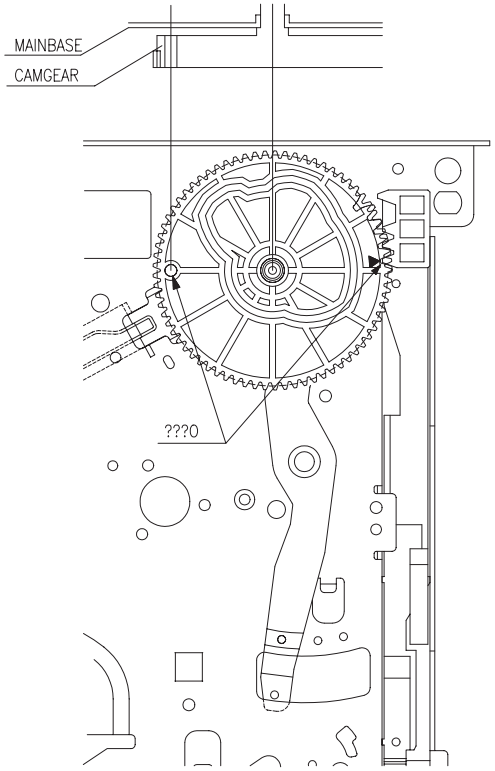


FIg. 4.1 Assembly reference between the FL RACK and the CAM GEAR

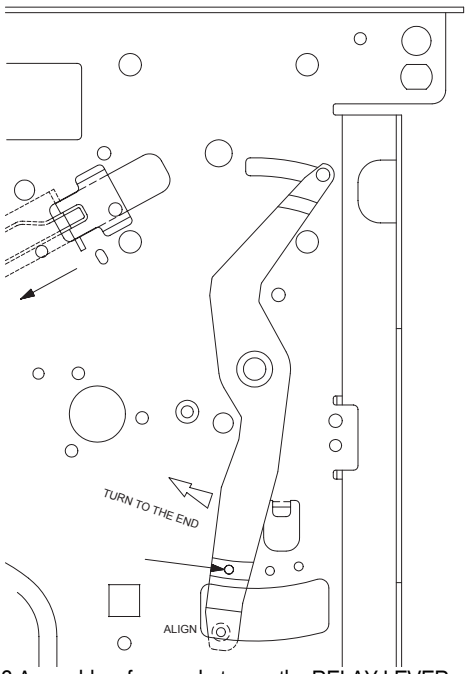


FIg. 4.2 Assembly reference between the RELAY LEVER and the CAM GEAR

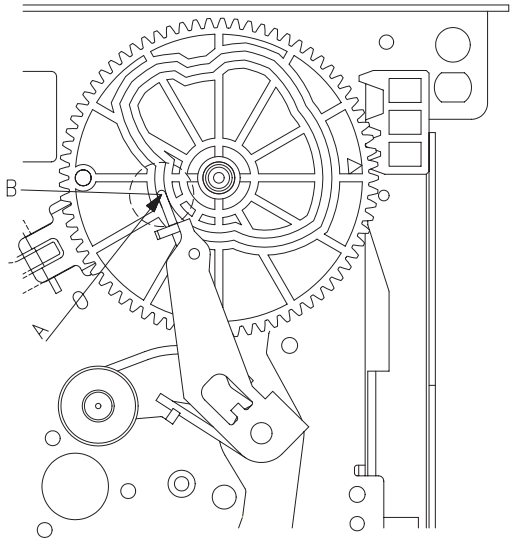


FIg. 4.3 Assembly reference of the PINCH LEVER TOTAL ASS Ywith the CAM GEAR

d. Make sure that the triangular mark A of the L LOADING Ass y is aligned with the mark b of the R LOADING Ass y. (Fig. 4.4)

e. Reference hole C of the LOADING RACK should be aligned with the reference hole of the R LOADING Ass y to make the teeth of the LOADING RACK is aligned as shown in Fig. 4.4.

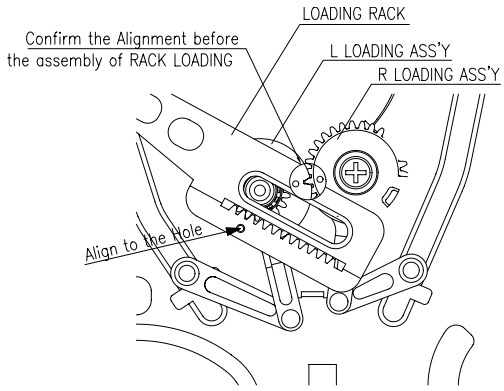


FIg. 4.4 Assembly reference between the LOADING RACK and the LOADING LEVER ASS Y

4. 2 ADJUSTMENT AND MEASUREMENT OF THE BACK TENSION (FIG. 4.5, 4.6)

a. Check that the location of the TENSION POLE is in the right position. if not, adjust that by refering to the 4.4 Adjustment of the TENSION POLE position .

b. Play back the T-120 TAPE in S-MAX for 20 seconds.(Generally tape transporting section is settled down in 20 seconds)

c. Measure the BACK TENSION by using the TENTELO METER (Refer Fig 4.5) The result should be within the range of 20g ~ 30g.

d. If the BACK TENSION is out of the range, change the position of the TENSION SPRING of repeat the process of 4.4 Adjustment of the TENSION POLE position .(Fig. 4.6)

CAUTION:

¥If the measurement result greater than the upper limit, change the hook point of the spring to position A

¥Confirm that all of the three probes of TENTELO METER are in contect with the tape.

¥During measuring, don't touch any other parts of the MECHANISM(i.e. MAINBASE). It is recommendedthat this measurment be repeated at least three times for an accurate reading.

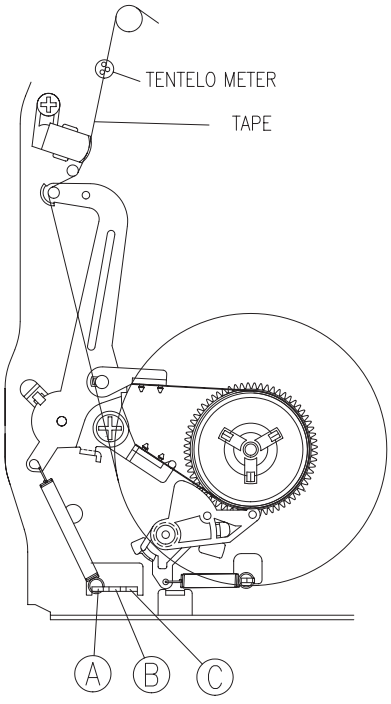


FIg. 4.5 Measurement of the BACK TENSION

4. 3 MECHANICAL MODE (OPERATE WITHOUT A CASSETTE TAPE)

a. Remove the FRONT LOADING MECHANISM from the DECK MECHANISM

b. Cap the IR LED and pull the FL RACK. This has the same effect with cassette loading to the deck.

c. If the S,T POLE BASE is loaded, PLAY MODE starts automatically. If you want other function, press the corresponding button.

d. Turn off the poser when the Mechanism is in the desired position.

4. 4 ADJUSTMENT OF THE POSITION OF THE TENSION POLE (FIG. 4.6)

a. Place the MECHANICAL MODE in the PLAY MODE. Refer to the above section 4.3 MECHANICAL MODE

b. Confirm that the TENSION LEVER is aligned with the datum hole of the MAINBASE.

c. If the requirement b is not satisfied. turn the BAND BRAKE ADJUST CAP clockwise or counterclockwise until the two datum holes aligns with each other.

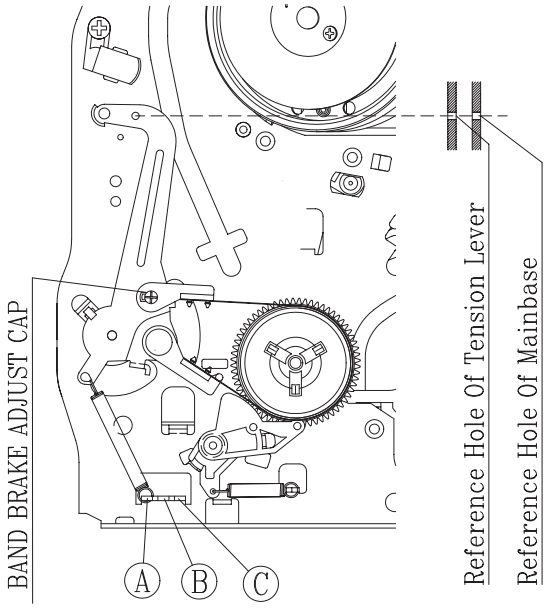
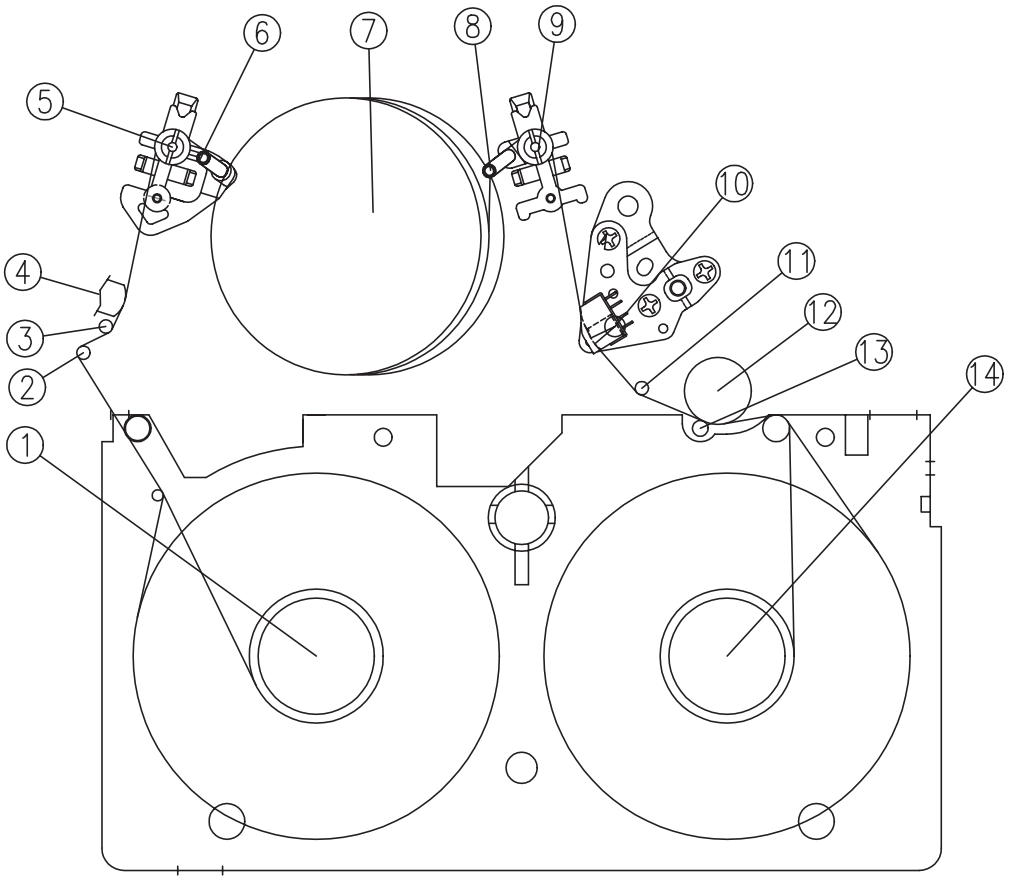


FIg. 4.6 Adjustment of the TENSION POLE POSITION

ADJUSTMENT OF THE TAPE TRANSPORT SECTION.

Generally, tape transporting section has been precisely adjusted in the factory and does not require the ordinary readjustment. But there is the case that tape noise or impact on the deck mechanism, tape transporting section readjustment is required. In adjustment of the tape transmission section consut the following flow chart.

If any components shown in Fig. 5.1, tape transport section are changed. To readjust the tape transporting section.



NO.	NAME	NO.	NAME
1	S REEL	8	T SLANT POLE
2	TENSION POLE	9	T GUIDE ROLLER
3	S GUIDE POST	10	ACE HEAD
4	FE HEAD	11	T GUIDE POST
5	S GUIDE ROLLER	12	PINCH ROLLER
6	S SLANT POLE	13	CAPSTAN SHAFT
7	DRUM	14	T REEL

ADJUSTMENT OF THE TAPE TRANSPORT SECTION

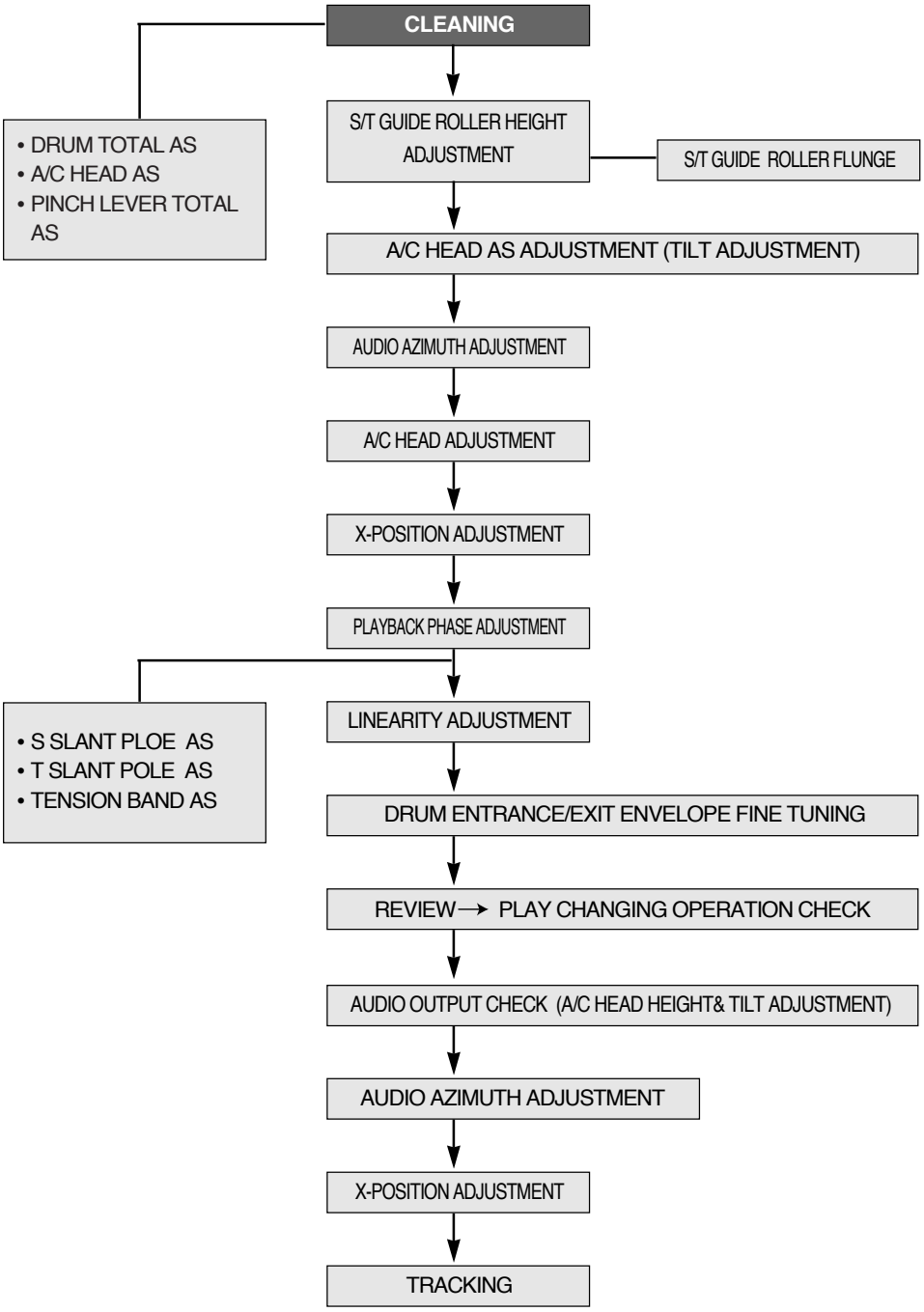


Table.1 Adjustment Flow Diagram of the Tape Transporting System

A. ADJUSTMENT OF THE S/T GUIDE ROLLER

A. Adjustment of the S/T GUIDE ROLLER

a. Check the Playing back with a T-120 TAPE.

b. Make sure that excessive tape wrinkle does not occure ateatch S, T GUIDE ROLLER.

c. If tape wrinkle is observed at the S/T GUIDE ROLLER, turn the guide roller screw until there is not tape wrinkle.

B. ADJUSTMENT OF THE AC HEAD ASS'Y(TILT)

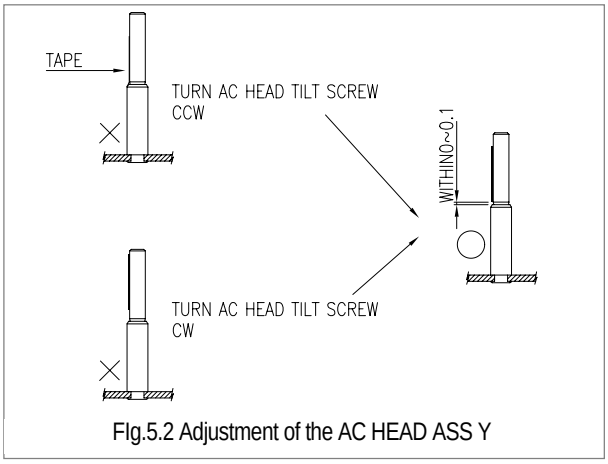


FIg.5.2 Adjustment of the AC HEAD ASS Y

a. Play back a T-120 TAPE and check the running status of lower side of GUIDE POST.

b. If there is any problem, Turn the AC HEAD TILT SCREW until the running status improved. (Fig. 5.2)

C. ADJUSTMENT OF THE AC HEAD HEIGHT(FIG. 5.3)

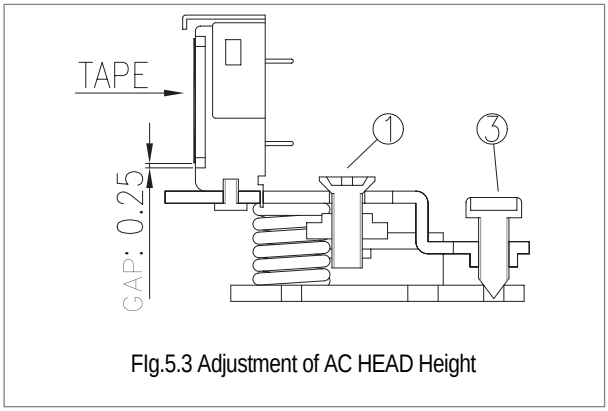


FIg.5.3 Adjustment of AC HEAD Height

a. Paly back a T-120 TAPE..

b. Make sure that the gap between the lower end of TAPE and the AC head is 0.25m.

c. If the measurement of the gap is different from the reference value 0.25mm, turn the screw ① , ③ until the desired gap is obtained.

D. ADJUSTMENT OF THE AUDIO AZIMUTH(FIG. 5.4)

a. Play back the ALIGNMENT TAPE
(DN2 : SP, NTSC,7KHz)

b. Check the AUDIO output with a AUDIO LEVEL METER.

c. Turn the AC HEAD AZIMUTH SCREW ② until the maximum AUDIO output(-9dBm ~ -3dBm)is obtained.

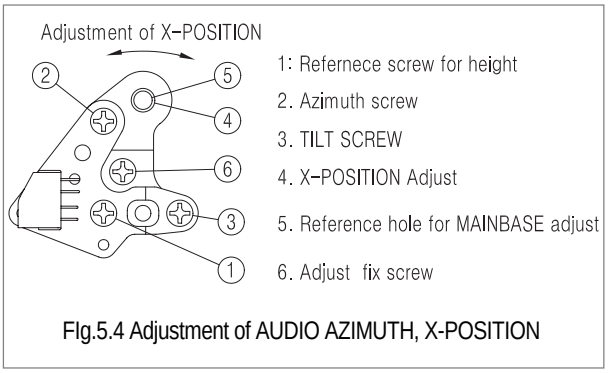


FIg.5.4 Adjustment of AUDIO AZIMUTH, X-POSITION

E. Adjustment of the X-POSITION(Fig. 5.4 5.5)

a. Connect the PATH ADJ. FIXTURE to the PT01 on the MAIN CIRCUIT BOARD.

b. Play back the ALIGNMENT TAPE (DN2 : SP MONOSCOPE).

c. Connect the S/W pin and ENVE pin of the PATH ADJ. FIXTURE with the SCOPE PROBE.

d. Insert the adjustment bar in the AC HEAD ADJUST hole ④ and adjust the X-POSITION of the AC HEAD ASS'Y until the ENVE is maximum when the VR is on the CENTER.

¥Three is the possibility that an another TRACKING CENTER can be occur when the AC HEAD ASS'Y turned completely in the counterclockwise direction, Hence adjust the X-position with AC HEAD ASS Y adhering closely to the right side until the maximum ENVE is obtained.

e. The adjustment of the X-POSITION finished, check if the AUDIO LEVEL is degraded, then readjustment of the AUDIO AZIMUTH is required.

Test Point	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ.FIXTURE
Measurement Equipment	OSILLOSCOPE	
Adjustment	VR CONTROL	PATH ADJ.FIXTURE
	AC HEAD ADJUST HOLE	ADJUSTMENT BAR

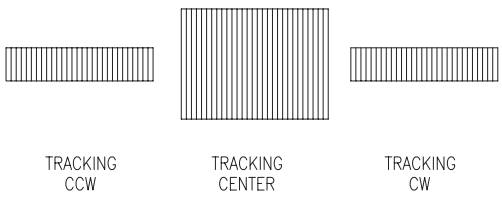


FIg.5.5 Adjustment of the X-POSITION

F. PLAYBACK PHASE ADJUSTMENT(FIG. 5.6)

Test Point	S/W PULSE TEST PIN	MAIN CIRCUTE BOARD
	ENVELOPE TEST PIN	MAIN CIRCUTE BOARD
Measurement Equipment	OSILLOSCOPE	
Adjustment	VR 595(PG SHIFTER)	MAIN CIRCUTE BOARD

PHASE GENERATOR(PG) SHIFTER determine the VIDEO HEAD SWITCHING POINT when the TAPE is played back. If an adjustment of the PHASE GENERATOR(PG) SHIFTER is not done precisely, There can be a HEAD SWITCHING NOISE or a VERTICAL JITTER problem, vibration of the picture on the screen, not good quality of picture in special play back.

a. Connect the PT01 on the MAIN CIRCUIT BOARD with a PATH ADJ. FIXTURE.

b. Play back an ALIGNMENT TAPE(DN-2 : MON-SCOPE signal)

c. Connect the S/W PULSE TEST PIN on the PATH ADJ. FIXTURE with a CHANNEL-1 SCOPE PROBE.

d. Connect the VIDEO OUT on the MAIN CIRCUIT BOARD with a CHANNEL-2 SCOPE PROBE (1V/div).

e. Control the PG VOLUME until the time interval between the SWITCHING PULSE and the V-SYNC SIGNAL is within the 6.5H–0.5H as shown in Fig. 5.6.

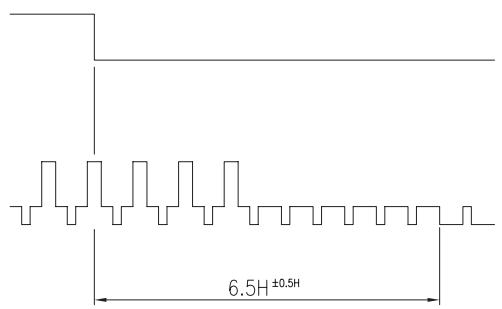


Fig.5.6 Playback Phase Adjustment

G. ADJUSTMENT OF THE LINEARITY(FIG. 5.7)

Test Point	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ.FIXTURE
Measurement Equipment	OSILLOSCOPE	
Adjustment	VR CONTROL	PATH ADJ.FIXTURE
	S/T GUIDE ROLLER	TAPE TRANSPORT SECTION

a. Connect the PT01 on the MAIN CIRCUIT BOARD with a PATH ADJ. FIXTURE.

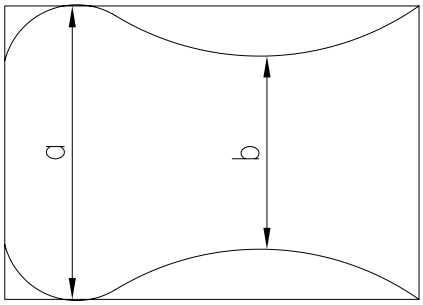
b. Play back an ALIGNMENT TAPE(DN-2 : MONOSCOPE Signal).

c. Connect the FIXTURE S/W PULSE TEST PIN on the PATH ADJ. CHANNEL-1 SCOPE PROBE.

d. Connect the VIDEO OUT on the MAIN CIRCUIT BOARD with a CHANNEL-2 SCOPE PROBE (1V/div).

e. Adjust the VR CONTROL on the ADJ. FIXTURE until the ENVELOPE signal is maximum while play back the ALIGNMENET TAPE.

f. Adjust the S/T GUIDE ROLLER until the envelope signal waveforms of the entrance and exit sides are as shown in Fig. 5-7.



a: Max Output of Envelope

b: Min Output of Envelope

FIg.5.7 Adjustment of Linearity

H. ADJUSTMENT OF THE WAVE FORM OF DRUM ENTRANCE /EXIT (FIG. 5.8)

Test Point	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ.FIXTURE
Measurement Equipment	OSILLOSCOPE	
Adjustment	VR CONTROL	PATH ADJ.FIXTURE
	S/T GUIDE ROLLER	TAPE TRANSPORT SECTION

a. Connect the PT01 on the MAIN CIRCUIT BOARD with a PATH ADJ.FIXTURE.

b. Play back an ALIGNMENT TAPE(DN-2 : MONOSCOPE signal)

c. Connect the S/W PULSE TEST PIN on the PATH ADJ. FIXTURE with a CHANNEL-1 SCOPE PROBE.

d. Connect the VIDEO OUT on the MAIN CIRCUIT BOARD with a CHANNEL-2 SCOPE PROBE(1V/div).

e. Turn the VR CONTROL on the PATH ADJ.FIXTURE clockwise or counterclockwise until the signal shape of ENVELOPE has the constant thickness.(Fig.5.8)

f. Adjust the S/T GUIDE ROLLER if the thickness of the ENVELOPE signal is not uniform.

I. REVIEW ⇔ PLAY(FIG. 5.9)

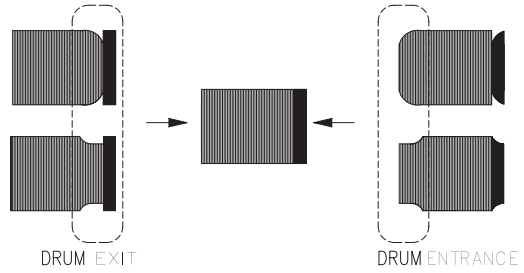


FIg.5.8 Fine adjustment of the ENVELOPE at the DRUM ENTRANCE/EXIT

Test Point	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ.FIXTURE
Measurement Equipment	OSILLOSCOPE	
Adjustment	VR CONTROL	PATH ADJ.FIXTURE
	S/T GUIDE ROLLER	TAPE TRANSPORT SECTION

a. Connect the PT01 on the MAIN CIRCUIT BOARD with a PATH ADJ.FIXTURE.

b. Play back an ALIGNMENT TAPE(DN-2 : MONOSCOPE signal)

c. Connect the S/W PULSE TEST PIN on the PATH ADJ. FIXTURE with a CHANNEL-1 SCOPE PROBE.

d. Connect the VIDEO OUT on the MAIN CIRCUITBOARD with a CHANNEL-2 SCOPE PROBE (1V/div).

e. Make the VR CONTROL on the PATH ADJ. FIXTURE to the center to maximize the ENVELOPE signal.

f. Play back the REVIEW mode about 15 second and alter the mode to PLAY MODE.

g. Check whether the ENVELOPE waveform restore to its original form within 3 second when the REVIEW mode is changed to PLAY mode.

h. If the requirement of g is not satisfied, Check the running status of tape on the lower part of TGUIDE POST and adjust the S/T GUIDE ROLLER precisely

.J. CHECKING AUDIO OUTPUT WAVEFORM (ADJUSTMENT OF AC HEAD TILT & HEIGHT)

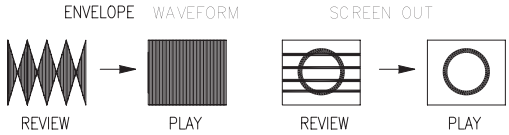


FIg.5.9 Waveform change when the modealtered (REVIEW ↔PLAY)

Test Point	AUDIO OUTPUT	AUDIO OUTPUT JACK
Measurement Equipment	AUDIO LEVEL METER	

a. Connect the AUDIO output jack with an AUDIO LEVEL METER.

b. Playback an Alignment Tape (DN-1:Color Bar 1KHz Signal)

c. Check if the AUDIO output signal level is over -9~-3dBm.

d. If the requirement of c is not satisfied, readjust the AC HEAD TILT and the HEIGHT until the AUDIO output is maximized. (Fig. 5.2, 5.3)

K. ADJUSTMENT OF THE AUDIO AZIMUTH

Test Point	AUDIO OUTPUT	AUDIO OUTPUT JACK
Measurement Equipment	AUDIO LEVEL METER	

a. Connect the AUDIO output JACK with an AUDIO LEVEL METER.

b. Play back the ALIGNMENT TAPE(DN-2:MONOSCOPE 7KHz Signal).

c. Check if the AUDIO output signal level is over : -9 ~-3dBm.

d. If the requirement of c is not satisfied, readjust the AZIMUTH SCREW of the AC HEAD until the AUDIO output is maximum.(Fig. 5.4)

e. Repeat the process of **Adjustment of the wave form of DRUM Entrance/Exit"**

L. X-POSITION

Test Point	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ.FIXTURE
Measurement Equipment	OSILLOSCOPE	
Adjustment	VR CONTROL	PATH ADJ.FIXTURE
	S/T GUIDE ROLLER	TAPE TRANSMISSION T SECTION

a. Connect the PT01 on the MAIN CIRCUIT BOARD with a PATH ADJ. FIXTURE.

b. Play back an ALIGNMENT TAPE(DN-2 : MONOSCOPE Signal).

c. Connect the S/W PULSE TEST PIN on the PATH ADJ. FIX-TURE with a CHANNEL-1 SCOPE PROBE.

d. Connect the VIDEO OUT on the MAIN CIRCUIT BOARD with a CHANNEL-2 SCOPE PROBE (1V/div).

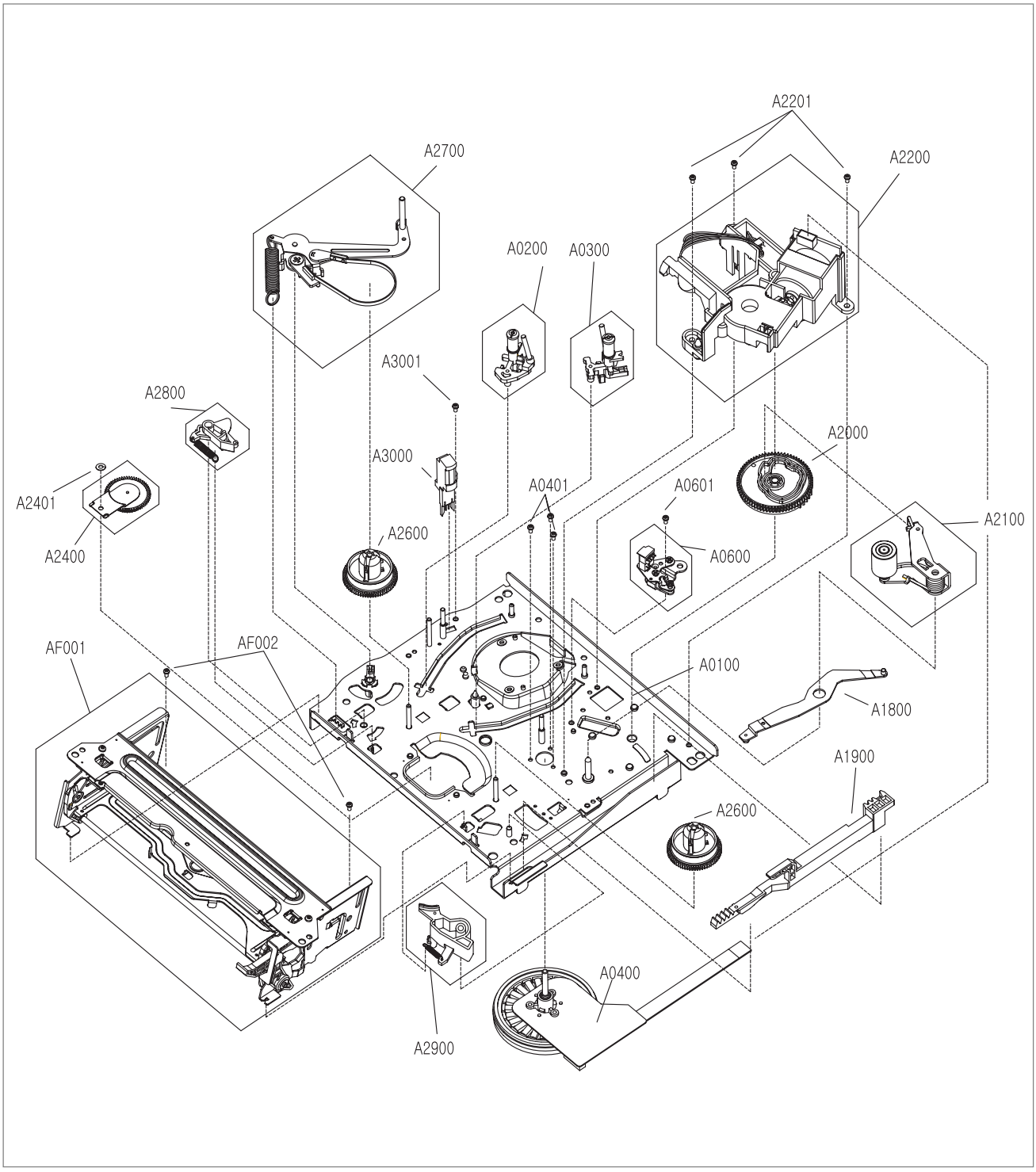
e. Check if the ENVELOPE is maximum when the VR CONTROL on the PATH ADJ. FIXTURE is in CENTER

f. If the requirement e is not satisfied, readjust the X-POSITION by referring to subitem E (Adjustment of the X-POSITION).

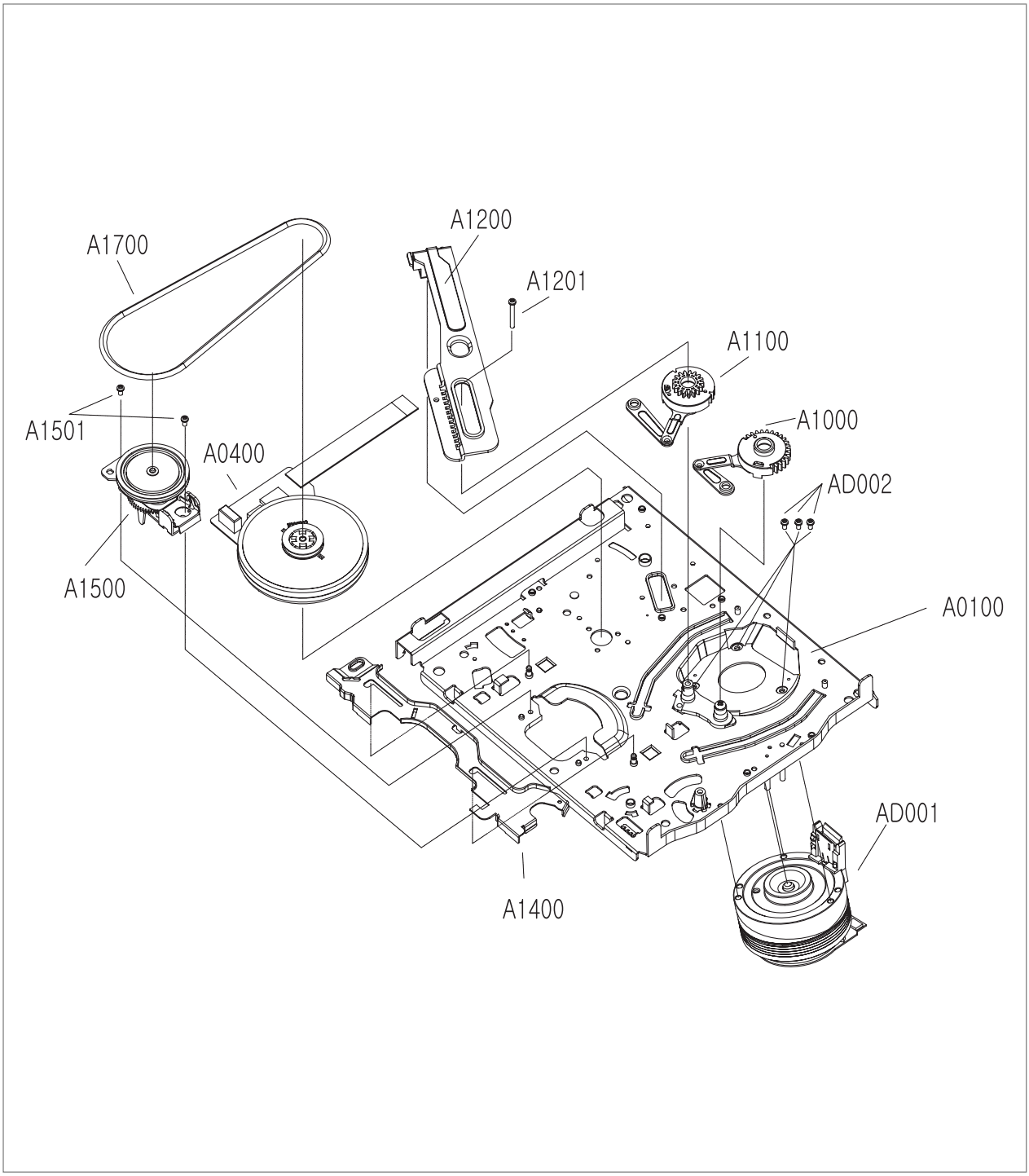
g. Repeat the process of subitem F (PLAYBACK PHASE ADJUSTMENT).

EXPLODED VIEW

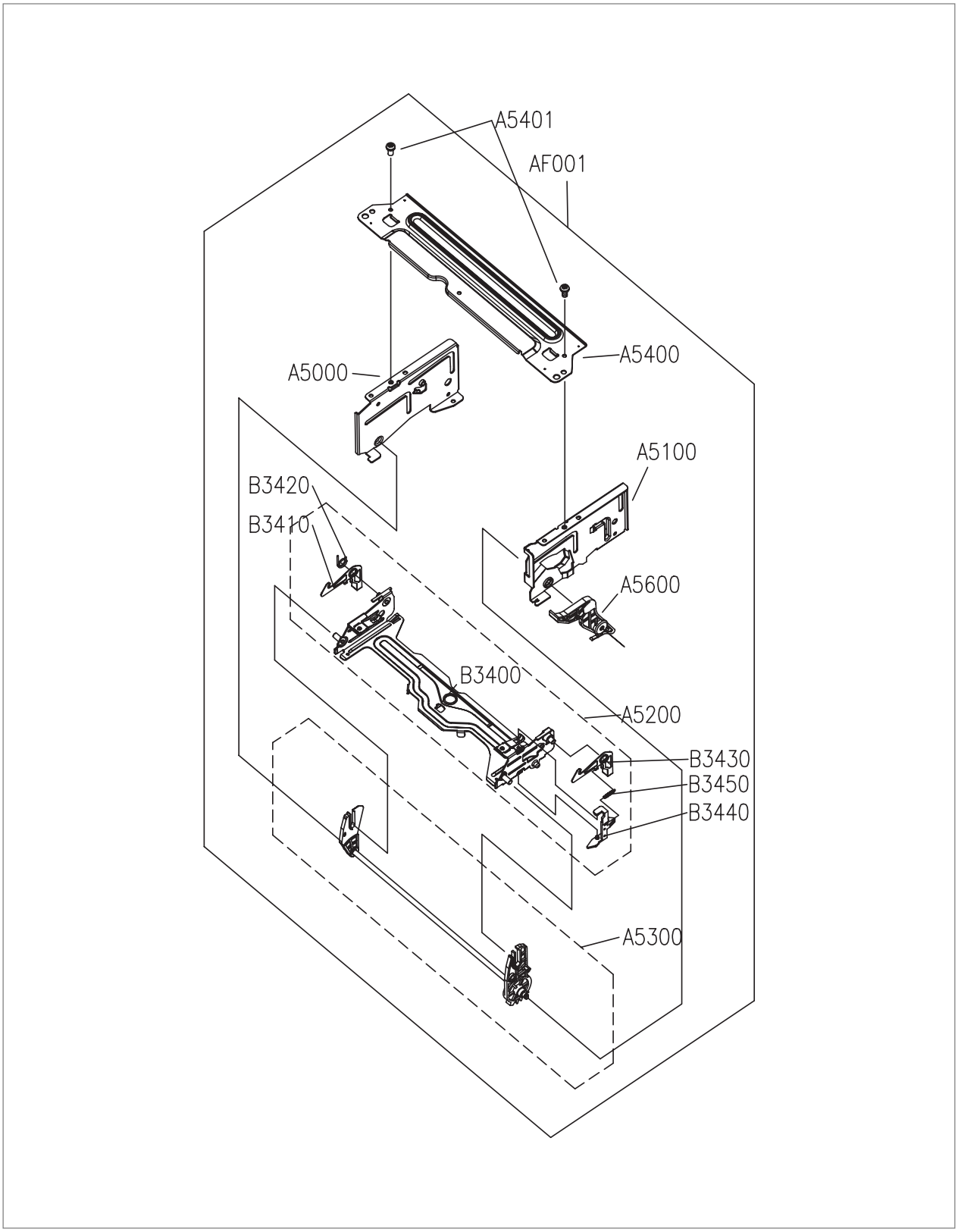
6.1 EXPLODED VIEW OF DECK ASS'Y (TOP VIEW)



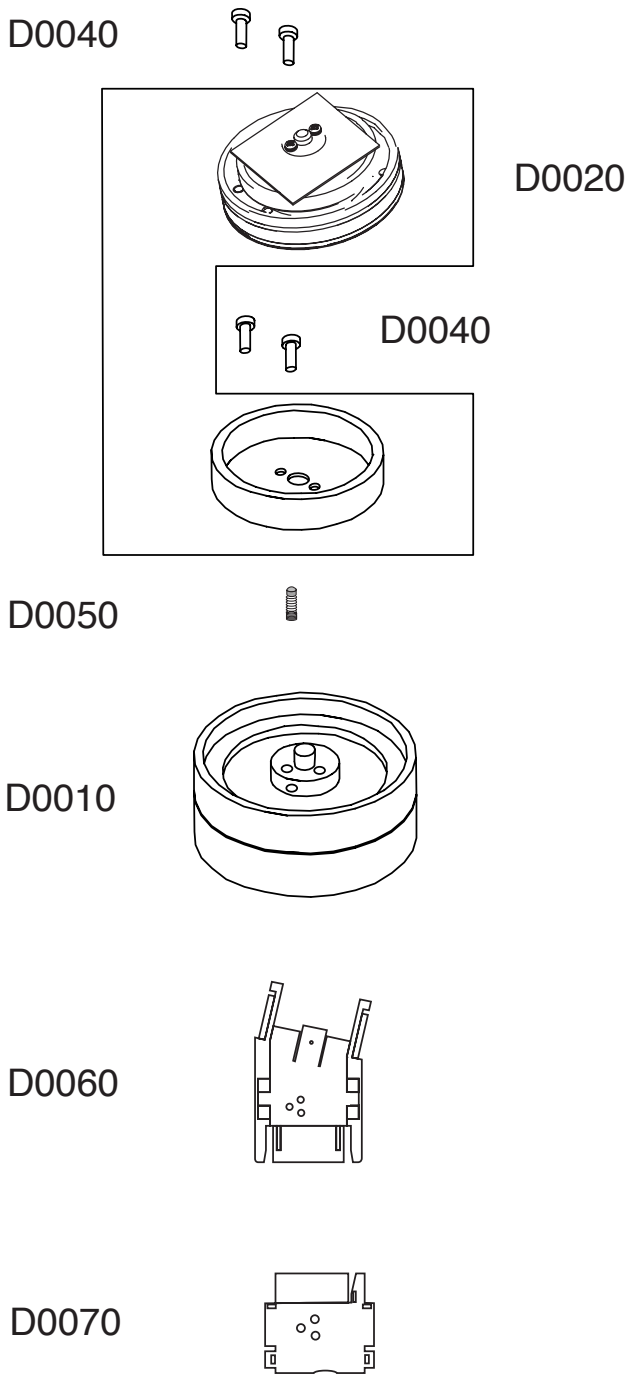
6. 2 EXPLODED VIEW OF DECK ASS'Y (BOTTOM VIEW)

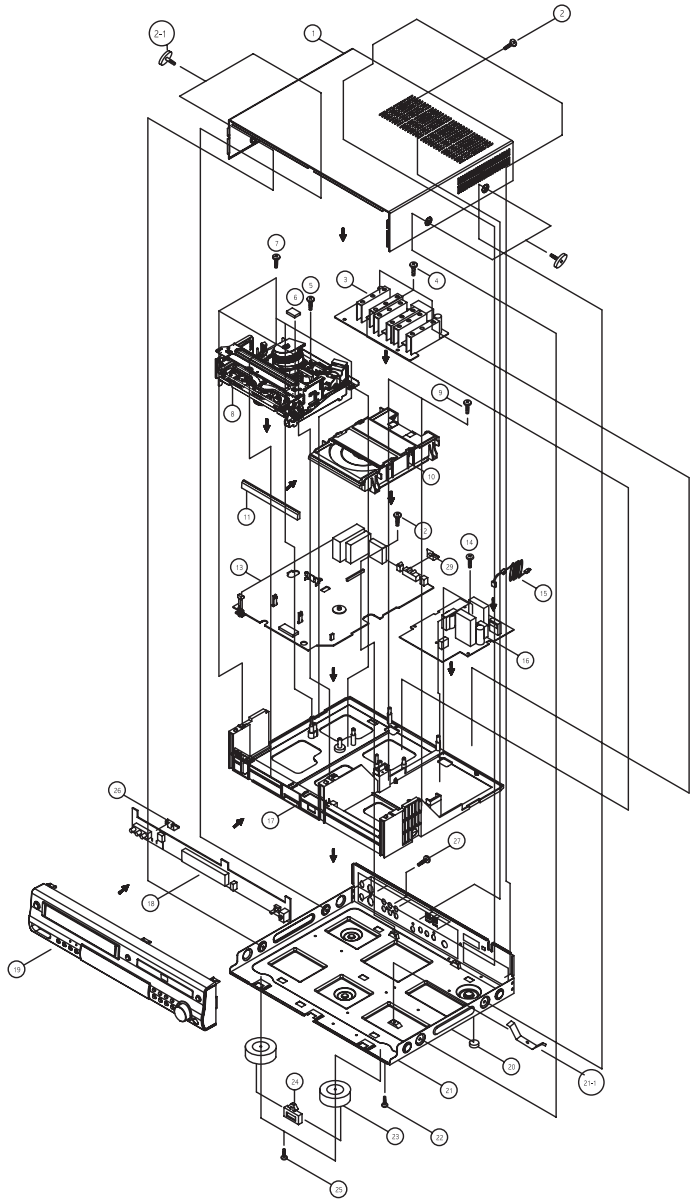


6.3 EXPLODED VIEW OF FL ASS'Y



EXPLODED VIEW





29	EARTH PLATE COAXIAL	97P0992300	1	SUS 304 T0.15	
28	EARTH BOTTOM	97P0991200	1	SECC T0.2	LOADER GROUND
27	SCREW TAPPTITE	7173300812	9	TT2 BIN 3X8 MFZN BK	VIDEO JACK FIX
26	PLATE EARTH-A/V	97P0991600	1	C5210(PBS) T0.2	
25	SCREW TAPPTITE	7174301011	2	TT2 RND 3X10 MFZN	LEG FIX
24	LEG	97P0800602	2	PLASTOMER	
23	LEG-B	97Q0804201	2	ABS	
22	SCREW TAPPTITE	7174300811	6	TT2 RND 3X10 MFZN	B/COVER+MCHASSIS FIX
21	COVER BOTTOM	97P0482204	1	SECC T0.8	
20	CUSHION LEG	97P4220200	1	EVA T4.0	
19	PANEL FRONT AS	97PP329010	1	DR-C91D1N-BS	
18	PCB LOGIC MANUAL AS	PVLAMSN669	1	DR-C9A21N-BS	
17	CHASSIS MAIN	97P0612810	1	HIPS(V0)	
16	PCB POWER MODULE AS	97PB398400	1	ICR 300DN AC85-265V 300W	
15	CORD POWER	97P69BY91A	1	USA KKP-10W YH396BHF	
14	SCREW TAPPTITE	7174300811	3	TT2 RND 3X8 MFZN	POWER PCB FIX
13	PCB MAIN AS	PVMPMSN669	1	DR-C9A21N-BS	
12	SCREW TAPPTITE	7174300811	1	TT2 RND 3X8 MFZN	M/PCB FIX
11	DOOR DVD AS	97PB253200	1	25901+09500 DR-C91D1N-BS	
10	TOTAL DVD	97QD020200	1	RL-S900(MECHA+SERVO+MPEG)	RMC LOADER
9	SCREW TAPPTITE	7174301211	4	TT2 RND 3X12 MFZN	DVD LOADER FIX
8	DECK VCR AS(T50) FL	PVDKARNB66	1	DRN-T610R NON.F/L	
7	SCREW TAPPTITE	7173401211	5	TT2 BIN 4X12 MFZN	DECK AS FIX
6	CUSHION TOP	97P4219500	1	EVA(20X14)	
5	SCREW TAPPTITE	7174301211	1	TT2 RND 3X12 MFZN	DECK AS+SHIELD FIX
4	SCREW TAPPTITE	7174300811	4	TT2 RND 3X8 MFZN	DVD PCB FIX
3	PCB AMP MANUAL AS	PVAMMSN669	1	DR-C9A21N-BS	
2-1	SCREW TAPPTITE	7173300812	4	TT2 BIN 3X8 MFZN BK	COVER TOP SIDE FIX
2	SCREW TAPPTITE	7173300812	3	TT2 BIN 3X8 MFZN BK	COVER TOP REAR FIX
1	COVER TOP	97P0482110	1	PCM T0.6	
N O	PART NAME	PART NO.	Q'TY	MATERIAL	REMARK

ELECTRICAL ADJUSTMENT

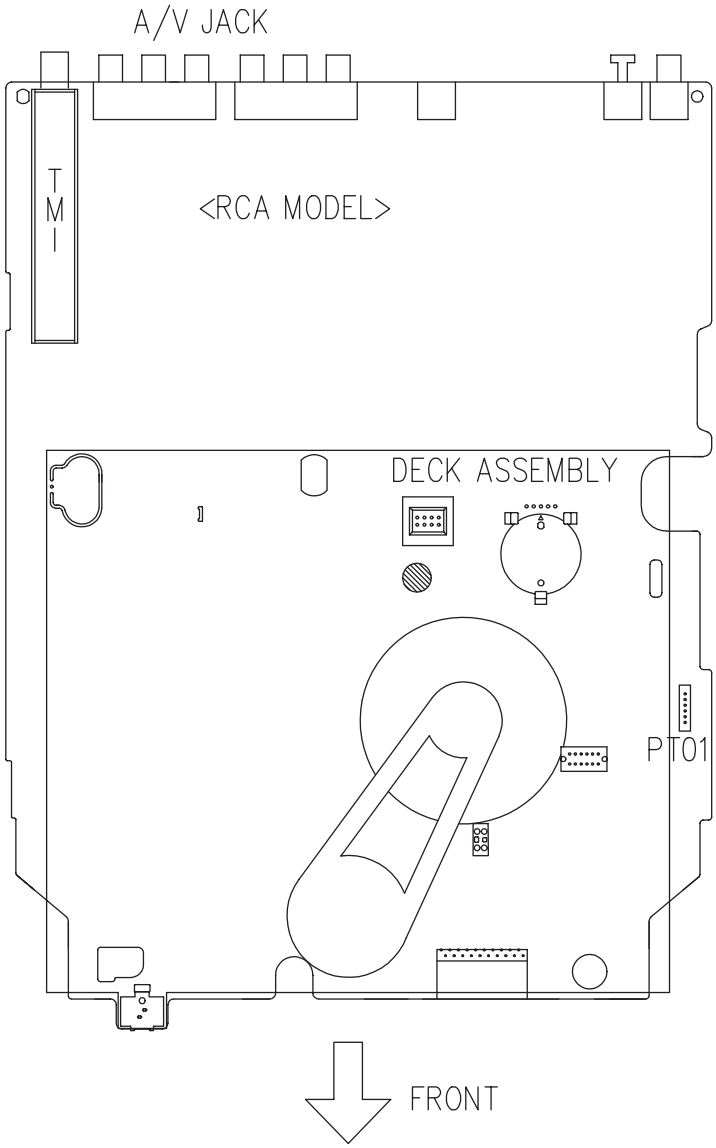


Fig. 1 Main board test point/control location guide(component)

PG (Pulse Generator) Shifter Adjustment (Fig. 3)

Test Points:	PT01 PIN ③	Main
	Video Out Jack	Rear Panel
Adjust:	REC SWITCH	Main

The Pulse Generator (PG) Shifter determines the video head switching point during playback. Misadjustment of the PG Shifter may cause head switching noise in the picture and/or vertical jitter.

1. Load the instrument with an alignment tape and play back the color bar signal or monoscope signal.
2. Connect Path Fixture to PT01.
3. Connect channel-1 scope probe (1V/div.: 50µsec/div.) to PT01 PIN ③. Trigger the scope on channel-1.
4. Connect channel-2 scope probe (1V/div.) to the Video Out Jack.
5. Set the scope to (-) slope and press the REC SW, the alignment is performed automatically. Confirm that the trailing edge of the SW 30Hz pulse is placed 6.5H–0.5H (horizontal) lines before the start of vertical sync pulse.

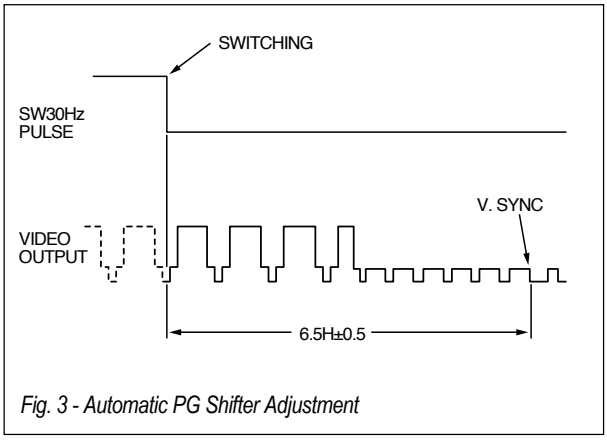
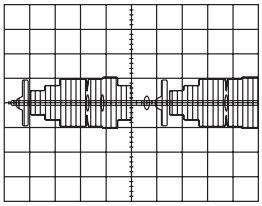


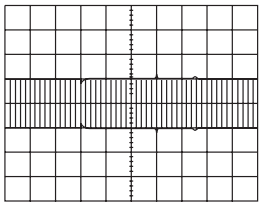
Fig. 3 - Automatic PG Shifter Adjustment

WAVEFORMS

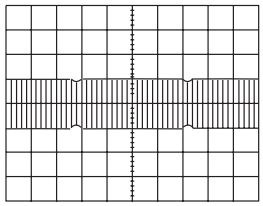
VIDEO WAVEFORMS



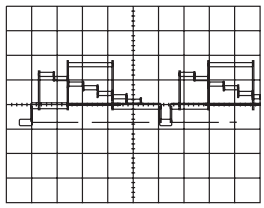
1 (IC301-46)480mVp-p
200mV/10u sec/cm
REC



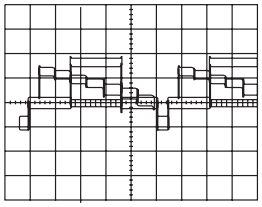
2 (IC301-14) 500mVp-p
200mV/5u s/cm
PLAY



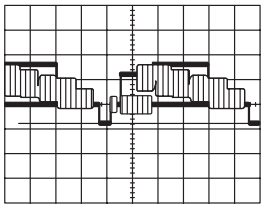
3 SP IC301-66 3.4Vp-p
EP IC301-73 3.2 Vp-p
1V/10msec/cm REC



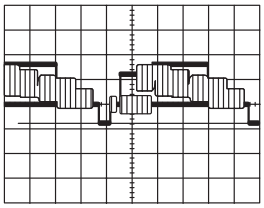
4 (IC301-20) 500mVp-p
200mV/10u sec/cm
REC



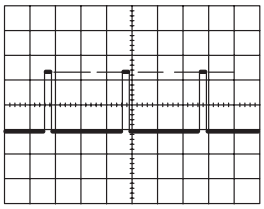
4 (IC301-74) 500mVp-p
200mV/10u sec/cm
PLAY



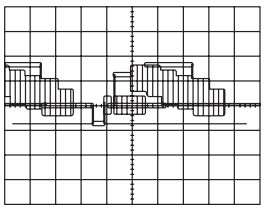
5 (IC301-34) 350mVp-p
200mV/10u sec/cm
REC



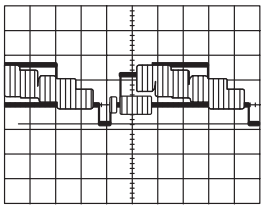
5 (IC301-34) 320mVp-p
200mV/10u sec/cm
PLAY



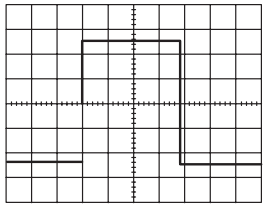
6 (IC301-25)4.2Vp-p
2V/20u sec/cm
REC/PLAY



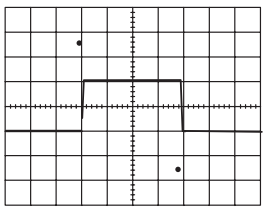
7 IC301 -26 & IC401-15
1V/10u sec/cm
REC



7 IC301-26 &IC401-15
1V/10u sec/cm
PLAY



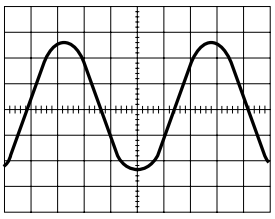
8 (IC301 -57)
0.5/5msec/cm
SP PLAY/REC



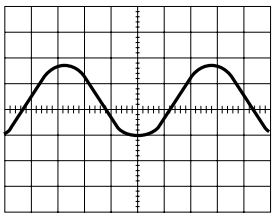
8 (IC301 -57)
0.5/5msec/cm
EP PLAY/REC

AUDIO WAVEFORMS

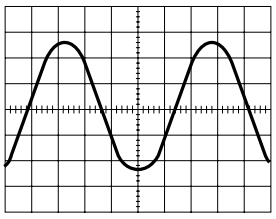
AUDIO(Normal)



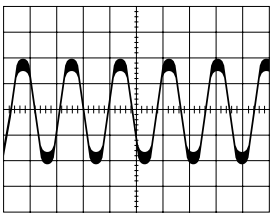
⑨ (IC301-76) 150mVp-p
20mV/0.5msec/cm
REC



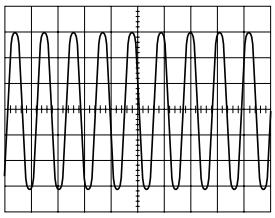
⑩ (IC301-10) 1.5Vp-p
0.5V/0.5msec/cm
REC



⑪ (IC301-9) 2.3Vp-p
0.5V/0.5msec/cm
REC

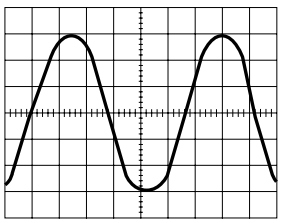


⑫ (IC301-2) 120mVp-p
50mV/0.5msec/cm
PLAY

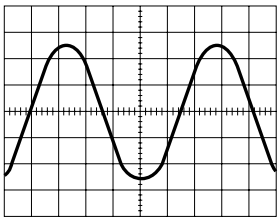


⑬ (P201-2) 75Vp-p
10V/20μsec/cm
REC

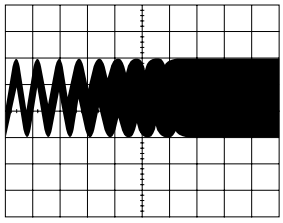
AUDIO(Hi-Fi)



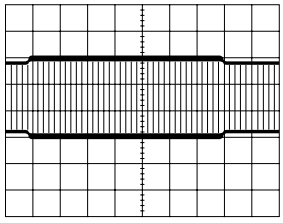
⑭ (IC251-10) 80mVp-p
20mV/0.5msec
EE/REC/PLAY



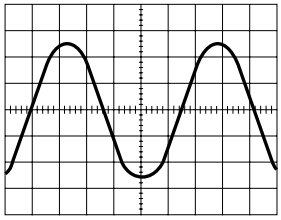
⑮ (IC251-19) 200mVp-p
50mV/0.5msec
EE/REC



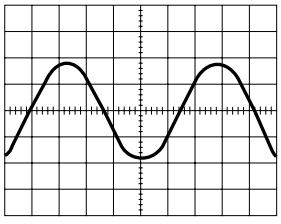
⑯ (IC251-21) 1.8Vp-p
0.5V/1msec
REC



⑰ (IC251-29) 1.2Vp-p
0.2V/2msec
PLAY

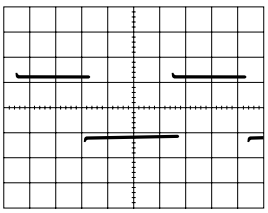


⑱ (IC251-32) 200mVp-p
50mV/0.5msec
EE/REC

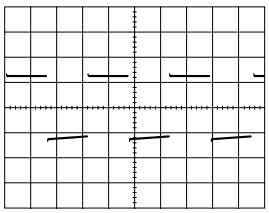


⑲ (IC251-57) 1.0Vp-p
0.5V/0.5msec
EE/REC

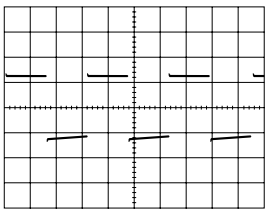
SERVO WAVEFORMS



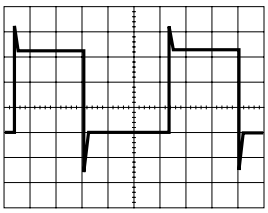
24 (IC601-18) 5Vp-p
2V/5msec/cm
REC/PLAY



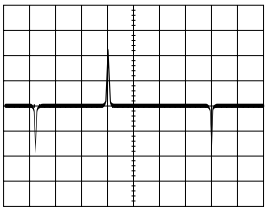
25 (IC601-77) 5Vp-p
2V/5μsec/cm
REC/PLAY



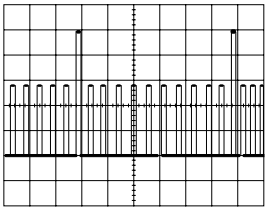
26 (IC601-76) 5Vp-p
2V/5μsec/cm
REC/PLAY



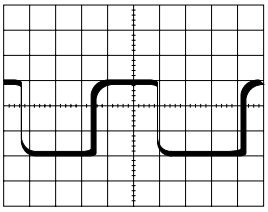
27 (IC601-94) 3Vp-p
1V/5msec/cm
REC



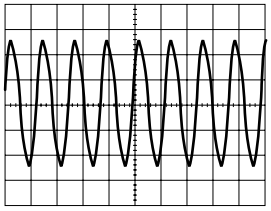
28 (IC601-97) 4.4Vp-p
1V/5msec/cm
PLAY



29 (IC601-90) 25Vp-p&5Vp-p
1V/5msec/cm
REC/PLAY

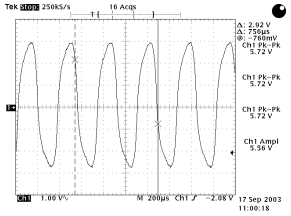


30 (IC601-87) 2.5Vp-p
1V/0.2msec/cm
REC/PLAY

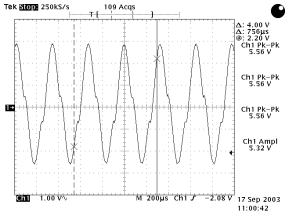


31 (IC601-38) 2.6Vp-p
0.5V/0.1μ sec/cm
REC/PLAY

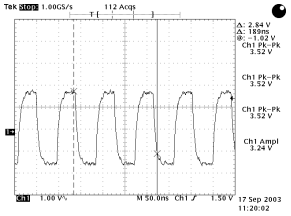
AMP AUDIO WAVEFORMS



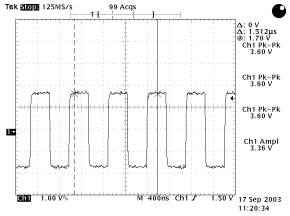
Amp Micom(IC220)
PIN#20(AMP CLK)



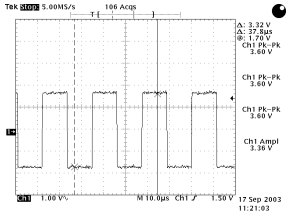
Amp Micom(IC220)
PIN#21(AMP CLK)



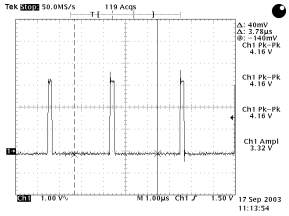
MCLK DDX-8000 (IC200)
PIN#20



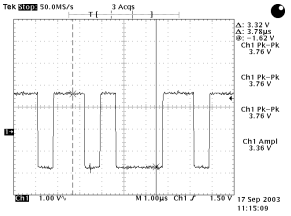
BCK DDX-8000(IC200) PIN#11



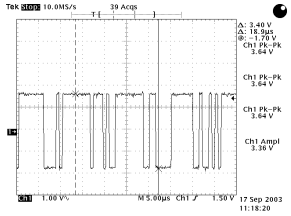
LRCK DDX-8000 (IC200)
PIN#10



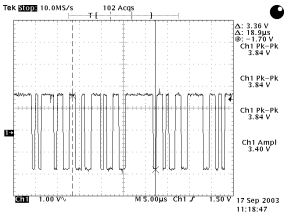
PCM0(downmix) DDX-8000
(IC200) PIN#6



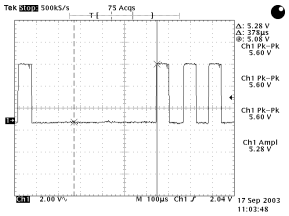
PCM1(Front L/R) DDX-8000
(IC200) PIN#9



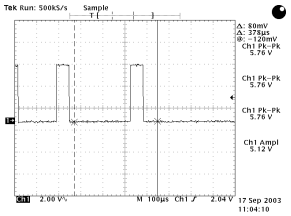
PCM2(CEN/SUB) DDX-8000
(IC200) PIN#7



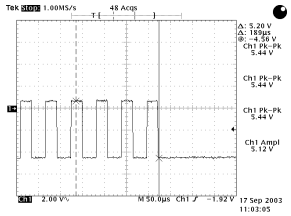
PCM3(Rear L/R)
DDX-8000 (IC200) PIN # 8



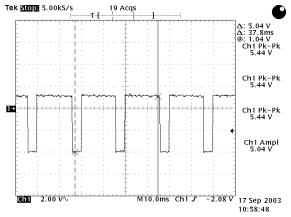
AMP Micom(IC220)
PIN#38(COMM_DO)



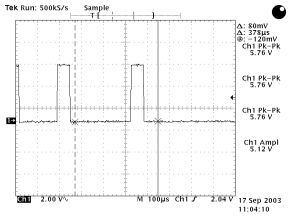
AMP Micom (IC220)
PIN#39(COMM_DI)



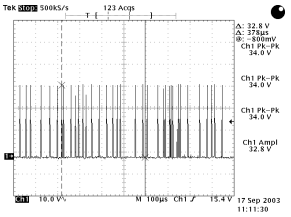
AMP Micom(IC220)
PIN#36(COMM_CLK)



AMP Micom(IC220) PIN #
14(COMM_CE)



DDX-2100 Data In PIN # 29,
30,31,32



DDX-2100 Data OUT PIN #
2,3,8,9,10,11,16,17

VOLTAGE CHART

1. SERVO/SYSCON/TIMER MI-COM

MODE / PIN No.	IC MI-COM (IC601)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
1	4.2	4.2	4.2	4.2	4.2	4.2	4.2
2	4.5	4.5	4.5	4.5	4.5	4.5	4.5
3	4.5	4.5	4.5	4.5	4.5	4.5	4.5
4	4.0	4.0	4.0	4.0	4.0	4.0	4.0
5	0	0	0	0	0	0	0
6	5.1	5.1	5.1	5.1	5.1	5.1	5.1
7	0	0	0	0	0	0	0
8	2	2	2	2	2	2	2
9	4.3	4.3	4.3	4.3	0.1	4.3	0.1
10	1.2	1.2	3	1.2	2.5	1.2	2
11	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0
13	0	0	0	0	0.1	0	0.1
14	5.2	5.2	5.2	5.2	5.2	5.2	5.2
15	2.6	2.6	2.6	2.6	2.8	2.6	5
16	0	0	5.1	0	3	0	2.6
17	0	0	0	0	3.3	0	0
18	2.6	2.6	2.6	2.6	2.6	2.6	2.6
19	2.6	2.6	2.6	2.6	2.6	2.6	2.6
20	5.1	5.1	5.1	5.1	5.1	5.1	5.1
21	0	0	0	0	0	0	0
22	0	5	0	0	0	0	0
23	0	0	0	0	0	0	0
24	5	5	5	0	5	5	5
25	5	5	5	5	5	5	5
26	0	0	0	5	0	0	0
27	5.1	0	0	0	5.1	0	5.1
28	1.6	1.6	1.6	1.6	1.6	1.6	0
29	5.1	5.1	5.1	5.1	5.1	5.1	5.1
30	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0
33	0	0	5	0	0	0	0
34	5.1	5.1	5.1	5.1	5.1	5.1	5.1
35	1.6	1.6	1.6	1.6	1.6	1.6	1.6
36	1.6	1.6	1.6	1.6	1.6	1.6	1.6
37	5.1	5.1	5.1	5.1	5.1	5.1	5.1
38	2.2	2.2	2.2	2.2	2.2	2.2	2.2
39	1.9	1.9	1.9	1.9	1.9	1.9	1.9
40	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0
42	5	5	5	5	5	5	5
43	5.1	5.1	5.1	5.1	5.1	5.1	5.1

MODE / PIN No.	IC MI-COM (IC601)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
44	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0
50	1.9	1.9	1.8	1.9	1.8	1.9	1.7
51	2.8	2.8	2.8	2.8	2.8	2.8	2.8
52	1.9	1.9	1.8	1.9	1.8	1.9	1.7
53	5.2	5.2	5.2	5.2	5.2	5.2	5.2
54	2.2	2.2	2.2	2.2	2.2	2.2	2.2
55	1.5	1.6	1.6	1.6	2.5	1.6	1.6
56	2	2	2	2	2	2	2
57	0	0	0	0	0	0	0
58	0.3	0.3	0.3	0.3	0.3	0.3	0.3
59	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0
64	5	5	5	5	5	5	5
65	5.1	5.1	5.1	5.1	5.1	5.1	5.1
66	4.7	4.7	4.7	4.7	4.7	4.7	4.7
67	5.1	5.1	5.1	5.1	5.1	5.1	5.1
68	4.9	4.9	4.9	4.9	4.9	4.9	4.9
69	5.1	5.1	5.1	5	5.1	5.1	5.1
70	5	5	5	5	5	5	5
71	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72	4.6	4.6	4.6	4.6	4.6	4.6	4.6
73	5	5	5	5	5	5	5
74	5.1	5.1	5.1	5.1	5.1	5.1	5.1
75	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76	2.7	2.7	2.7	2.7	0	2.7	2.7
77	0	2.9	2.9	2.9	2.9	0	5.1
78	5	5	5	5	5	5	5
79	vary	vary	vary	vary	vary	vary	vary
80	vary	vary	vary	vary	vary	vary	vary
81	0	0	0	0	0	0	0
82	2.7	2.7	2.7	2.7	2.7	2.7	2.7
83	5.1	5.1	5.1	5.1	5.1	5.1	5.1
84	5.1	0	0	0	5.1	0	0
85	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0

MODE / PIN No.	IC MI-COM (IC601)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
87	3.9	2.5	2.5	2.5	2.5	3.8	3.9
88	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0
90	1.4	1.4	1.4	1.4	1.4	1.4	1.4
91	2.6	2.6	2.6	2.6	2.6	2.6	2.6
92	2.6	2.6	2.6	2.6	2.6	2.6	2.6
93	0	0	0	0	0	0	0
94	2.5	2.2	2.5	2.5	2.5	2.5	2.5
95	2.5	2.8	2.5	2.5	2.5	2.5	2.5
96	2.6	2.6	2.6	2.6	2.6	2.6	2.6
97	2.6	2.6	2.6	2.6	2.6	2.6	2.6
98	5.1	5.1	5.1	5.1	5.1	5.1	5.1
99	5.1	5.1	5.1	5.1	5.1	5.1	5.1
100	4.6	4.6	4.6	4.6	4.6	4.6	4.6

2. IC EEPROM/SYNC SRPA/RESET/TR VOLTAGE CHARTS

MODE / PIN No.	IC EEPROM(IC603)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0

MODE / PIN No.	IC EEPROM(IC603)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
5	4.6	4.6	4.6	4.6	4.6	4.6	4.6
6	4.7	4.7	4.7	4.7	4.7	4.7	4.7
7	0	0	0	0	0	0	0
8	5.1	5.1	5.1	5.1	5.1	5.1	5.1

MODE / PIN No.	TR(Q601)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
E	0.2	0.2	2.0	0.2	2.0	0.2	2.0
C	5.2	5.2	5.2	5.2	5.2	5.2	5.2
B	0.8	0.8	2.3	0.8	2.3	0.8	2.3

3. IC DRIVER/SWITCH VOLTAGE CHARTS

MODE / PIN No.	IC DRIVER (IC701)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2	0	5.1	0	0	0	5.1	0
3	0	0	5	5	5	0	5
4	5	5	5	5	5	5	5
5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
6	4.9	4.9	4.9	4.9	4.9	4.9	4.9
7	4.9	4.9	4.9	4.9	4.9	4.9	4.9
8	4.9	4.9	4.9	4.9	4.9	4.9	4.9
9	5	5	5	5	5	5	5
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0
13	5	5	5	5	5	5	5
14	-26	-26	-26	-26	-26	-26	-26
15	-26	-26	-26	-26	-26	-26	-26
16	-26	-26	-26	-26	-26	-26	-26
17	-26	-26	-26	-26	-26	-26	-26
18	-26	-26	-26	-26	-26	-26	-26
19	-26	-26	-26	-26	-26	-26	-26
20	-26	-26	-26	-26	-26	-26	-26
21	-26	-26	-26	-26	-26	-26	-26
22	-26	-26	-26	-26	-26	-26	-26

MODE / PIN No.	IC DRIVER (IC701)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
23	-24	-24	-24	-24	-24	-24	-24
24	-24	-24	-24	-24	-24	-24	-24
25	-24	-24	-24	-24	-24	-24	-24
26	-24	-24	-24	-24	-24	-24	-24
27	-24	-24	-24	-24	-24	-24	-24
28	-24	-24	-24	-24	-24	-24	-24
29	-24	-24	-24	-24	-24	-24	-24
30	-25.7	-25.7	-25.7	-25.7	-25.7	-25.7	-25.7
31	-22	-22	-22	-22	-22	-22	-22
32	-22	-22	-22	-22	-22	-22	-22
33	-22	-22	-22	-22	-22	-22	-22
34	-22	-22	-22	-22	-22	-22	-22
35	-22	-22	-22	-22	-22	-22	-22
36	-22	-22	-22	-22	-22	-22	-22
37	-22	-22	-22	-22	-22	-22	-22
38	-22	-22	-22	-22	-22	-22	-22
39	-22	-22	-22	-22	-22	-22	-22
40	-22	-22	-22	-22	-22	-22	-22
41	-22	-22	-22	-22	-22	-22	-22
42	-22	-22	-22	-22	-22	-22	-22
43	-22	-22	-22	-22	-22	-22	-22
44	-22	-22	-22	-22	-22	-22	-22

4. VIDEO(LUMA/CHROMA) AND LINEAR AUDIO VOLTAGE CHARTS

MODE / PIN No.	IC VIDEO/AUDIO (IC301)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
2	2.4	3.0	2.4	2.4	2.4	2.4	2.4
3	2.4	2.4	2.4	2.4	2.4	2.4	2.4
4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
5	2.4	2.4	2.4	2.4	2.4	2.4	2.4
6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
7	0.0	1.7	0.0	0.0	0.0	0.0	0.0
8	2.4	2.3	2.4	2.4	2.4	2.4	2.4
9	2.4	2.3	2.4	2.4	2.4	2.4	2.4
10	2.4	2.3	2.4	2.4	2.4	2.4	2.4
11	0.8	4.4	0.8	0.8	0.8	0.8	0.8
12	1.0	1.0	1.0	1.0	1.0	1.0	1.1
13	0.8	0.8	0.8	0.8	0.8	0.8	0.9
14	1.7	1.7	1.7	1.7	1.6	1.7	1.8
15	1.5	1.4	1.7	1.4	1.5	1.4	1.6
16	0.0	0.0	0.0	0.0	0.0	0.0	0.1
17	4.4	4.4	4.4	4.4	4.4	4.4	4.4
18	2.4	2.4	1.4	2.4	1.4	2.4	1.5
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	2.4	2.5	2.2	2.5	2.7	2.5	2.3
21	1.8	1.8	1.5	1.8	1.8	1.8	1.5
22	3.0	3.0	2.9	3.0	3.0	3.0	2.9
23	5.2	5.2	5.2	5.2	5.2	5.2	5.2
24	0.0	0.0	0.0	0.0	0.5	0.0	0.2
25	0.3	0.3	3.5	0.3	4.6	0.3	0.4
26	1.9	1.9	1.9	1.9	1.9	1.9	2.0
27	1.4	1.5	1.6	1.4	1.6	1.4	1.6
28	2.4	2.4	2.4	2.4	2.4	2.4	2.3
29	2.3	2.3	2.4	2.3	2.3	2.3	2.3
30	2.4	2.4	2.4	2.4	2.4	2.4	2.4
31	4.0	4.0	4.0	4.0	4.0	4.0	4.0
32	2.4	2.4	2.4	2.4	2.4	2.4	2.4
33	3.6	2.6	2.7	2.7	2.3	3.6	2.6
34	2.9	2.9	2.9	2.9	3.0	2.9	2.8
35	3.1	2.9	3.1	3.1	3.1	3.1	3.1
36	2.7	2.7	2.7	2.7	2.6	2.7	2.7
37	2.7	2.7	2.7	2.7	2.8	2.8	2.8
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	1.6	1.6	1.6	1.6	1.5	1.6	1.6
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MODE / PIN No.	IC VIDEO/AUDIO (IC301)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
41	0.8	0.8	0.8	0.8	0.8	0.8	0.8
42	2.4	2.4	2.4	2.4	2.4	2.4	2.4
43	4.1	4.1	4.1	4.1	0.4	0.4	4.2
44	5.2	5.2	5.2	5.2	5.2	5.2	5.2
45	5.2	5.2	5.2	5.2	5.2	5.2	5.2
46	2.4	2.4	3.4	2.4	3.4	2.5	3.5
47	3.3	3.3	3.3	3.3	3.2	3.3	3.3
48	3.3	2.8	3.3	3.3	3.2	3.3	3.4
49	4.2	4.1	4.2	4.2	4.1	4.2	4.2
50	2.9	2.8	2.9	2.9	2.9	2.9	2.9
51	2.1	2.1	2.1	2.1	2.1	2.1	2.1
52	5.2	5.2	5.2	5.2	5.2	5.2	5.2
53	4.6	4.8	4.8	4.7	4.9	4.6	4.7
54	4.6	4.8	4.8	4.6	4.8	4.6	4.7
55	0.4	0.1	0.1	0.2	0.1	3.7	0.3
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	2.6	2.6	2.6	2.6	2.6	3.5
58	1.8	1.8	1.8	1.8	4.3	1.8	4.3
59	0.7	0.7	2.9	0.7	2.7	0.7	2.3
60	0.0	0.0	0.0	0.0	3.1	0.0	0.1
61	3.0	2.1	2.1	3.0	2.1	3.0	2.1
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	4.3	4.3	4.2	4.3	4.3	4.3	4.2
64	1.7	1.7	2.1	1.7	1.3	1.8	1.7
65	0.7	0.7	2.1	0.7	2.1	0.7	1.5
66	0.7	0.7	2.1	0.7	2.1	0.7	1.5
67	0.7	0.7	2.1	0.7	2.1	0.7	1.5
68	5.1	5.1	5.1	5.1	5.1	5.2	5.1
69	1.8	1.8	0.0	1.8	0.0	1.8	0.0
70	1.9	1.9	0.0	1.9	0.0	1.9	0.0
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	4.4	4.3	2.1	4.3	2.1	4.3	1.5
73	4.3	4.3	2.1	4.3	2.1	4.3	1.5
74	4.4	4.3	2.1	4.3	2.1	4.3	1.5
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	2.4	2.4	2.3	2.4	2.4	2.4	2.4
77	5.2	5.1	5.2	5.2	5.2	5.2	5.2
78	2.4	2.4	2.4	2.4	2.4	2.4	2.4
79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	2.4	2.4	2.4	2.4	2.4	2.4	2.4

5. VIDEO SWITCHING IC VOLTAGE CHARTS

MODE / PIN No.	IC401						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
2	1.9	1.9	1.9	1.9	1.9	1.9	1.9
3	2	2	2	2	2	2	2
4	1.9	1.9	1.9	1.9	1.9	1.9	1.9
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8	4.1	4.1	4.1	4.1	4.1	4.1	4.1

MODE / PIN No.	IC DRIVER (IC701)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
9	4.1	4.1	4.1	4.1	4.1	4.1	4.1
10	4.1	4.1	4.1	4.1	4.1	4.1	4.1
11	3.4	3.4	3.4	3.4	3.4	3.4	3.4
12	3.4	3.4	3.4	3.4	3.4	3.4	3.4
13	3.4	3.4	3.4	3.4	3.4	3.4	3.4
14	0.8	0.8	0.8	0.8	0.8	0.8	0.8
15	12.1	12.1	12.1	12.1	12.1	12.1	12.1

MODE / PIN No.	TR						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
Q301							
E	2.3	2.3	2.3	2.3	2.3	2.3	2.3
C	0	0	0	0	0	0	0
B	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Q302							
E	4.1	4.1	4.1	4.1	4.1	4.1	4.1
C	5.9	5.9	5.9	5.9	5.9	5.9	5.9
B	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Q304							
E	0	0.6	0	0	0	0	0
C	3	0	3	3	3	3	3
B	0	0	0	0	0	0	0
Q305							
E	3.5	3.5	3.5	3.5	3.5	3.5	3.5
C	0	0	0	0	0	0	0
B	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Q401							
E	1.7	1.7	1.7	1.7	1.7	1.7	1.7
C	0	0	0	0	0	0	0
B	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Q102							
E	2.7	2.7	2.7	2.7	2.7	2.7	2.7
C	0	0	0	0	0	0	0
B	2	2	2	2	2	2	2

MODE / PIN No.	TR						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
Q103							
E	1.8	1.8	1.8	1.8	1.8	1.8	1.8
C	0	0	0	0	0	0	0
B	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Q104							
E	1.8	1.8	1.8	1.8	1.8	1.8	1.8
C	0	0	0	0	0	0	0
B	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Q105							
E	1.8	1.8	1.8	1.8	1.8	1.8	1.8
C	0 0	0	0	0	0	0	
B	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Q106							
E	1.8	1.8	1.8	1.8	1.8	1.8	1.8
C	0	0	0	0	0	0	0
B	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Q107							
E	1.8	1.8	1.8	1.8	1.8	1.8	1.8
C	0	0	0	0	0	0	0
B	2.5	2.5	2.5	2.5	2.5	2.5	2.5

6. HIFI AUDIO IC VOLTAGE CHARTS

MODE / PIN No.	IC Hi-Fi (IC251)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2	0	0	0	0	0	0	0
3	2.5	2.5	2.5	2.5	2.5	2.5	2.5
4	0	0	0	0	0	0	0
5	2.2	2.2	2.2	2.2	2.2	2.2	2.2
6	2.5	2.5	2.5	2.5	2.5	2.5	2.5
7	2	2	2	2	2	2	2
8	0.3	0.3	0.3	0.3	0.3	0.3	0.3
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0
12	2	2	2	2	2	2	2
13	2.3	2.3	2.3	2.3	2.3	2.2	2.3
14	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0
16	2.6	2.5	2.5	2.5	2.6	2.5	2.5
17	0.7	0.7	0.7	0.7	0.7	0.7	0.4
18	2.6	2.5	2.5	2.5	2.6	2.5	2.5
19	2.6	2.5	2.5	2.5	2.6	2.5	2.5
20	2.6	2.6	0	2.6	2.6	2.6	2.6
21	2.6	2.6	0	2.6	2.6	2.6	2.6
22	2.6	2.6	0.6	2.6	2.6	2.6	2.6
23	0	0	0	0	0	0	0
24	2.6	2.6	0.6	2.6	2.6	2.6	2.6
25	5	5	5	5	5	5	5
26	2.6	2.6	0	2.6	2.6	2.6	0
27	2.5	2.5	2.5	2.6	2.5	2.5	2.6
28	0.1	0.1	4.2	0.1	0.1	0.1	0.1
29	1.9	4.5	1.8	1.8	1.8	1.8	1.8
30	1.9	4.5	1.8	1.8	1.8	1.8	1.8
31	0	1.1	2	0	0	0	3.1
32	2.5	2.5	2.5	2.6	2.6	2.5	2.5

MODE / PIN No.	IC VIDEO/AUDIO (IC301)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
33	2.6	2.5	2.5	2.5	2.5	2.5	2.5
34	0.7	0.7	0.7	0.7	0.7	0.7	0.4
35	2.6	2.5	2.5	2.5	2.5	2.5	2.4
36	0	0	0	0	0	0	5
37	1.7	1.7	1.7	1.6	1.7	1.6	1.6
38	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0
40	5	5	5	5	5	5	5
41	0	0	0	0	0	0	0
42	4.8	4.8	4.8	4.8	4.8	4.8	4.8
43	4.8	4.8	4.8	4.8	4.8	4.8	4.8
44	2.3	2.3	2.3	2.3	2.3	2.3	2.3
45	0	0	0	0	0	0	0
46	3.6	3.5	3.5	3.5	3.6	3.5	3.5
47	1.4	1.4	1.4	1.4	1.4	1.4	1.4
48	2.1	2.1	2.2	2.2	2.1	2.1	2.1
49	3.2	3.2	3.2	3.2	3.2	3.2	3.2
50	3	3	3	3	3	3	3
51	5	5	5	5	5	5	5
52	3	3	3	3	3	3	3
53	6	6	6	6	6	6	6
54	2.4	2.4	2.4	2.4	2.4	2.4	2.4
55	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0
57	6	6	6	6	6	6	6
58	12.4	12.4	12.4	12.4	12.4	12.4	12.4
59	6	6	6	6	6	6	6
60	0.1	0.1	0.1	0.1	0.1	0.1	0.1
61	2.5	2.5	2.5	2.5	2.5	2.5	2.5
62	2	2	2	2	2	2	2
63	2.4	2.4	2.4	2.4	2.4	2.4	2.4
64	0.4	0.4	0.4	0.4	0.4	0.4	0.4

7. AUDIO SWITCHING IC VOLTAGE CHART

MODE / PIN No.	SWITCH IC (IC252)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
1	5.8	5.8	5.8	5.8	5.8	5.8	5.8
2	5.8	5.8	5.8	5.8	5.8	5.8	5.8
3	5.8	5.8	5.8	5.8	5.8	5.8	5.8
4	5.8	5.8	5.8	5.8	5.8	5.8	5.8
5	5.8	5.8	5.8	5.8	5.8	5.8	5.8
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0

MODE / PIN No.	SWITCH IC (IC252)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
9	4	4	4	4	4	4	4
10	4	4	4	4	4	4	4
11	5.8	5.8	5.8	5.8	5.8	5.8	5.8
12	5.85.8	5.8	5.8	5.8	5.8	5.8	5.8
13	5.8	5.8	5.8	5.8	5.8	5.8	5.8
14	5.8	5.8	5.8	5.8	5.8	5.8	5.8
15	5.8	5.8	5.8	5.8	5.8	5.8	5.8
16	12	12	12	12	12	12	12

8. TMI VOLTAGE CHART

MODE / PIN No.	TMI (RF101)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
1	0	0	0	0	0	0	0
2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
3	5	5	5	5	5	5	5
4	5	5	5	5	5	5	5
5	1.4	1.4	1.3	1.5	1.3	1.5	1.3
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0

MODE / PIN No.	TMI (RF101)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
9	4.7	4.8	4.8	4.8	4.8	4.7	4.8
10	4.7	4.8	4.8	4.7	4.8	4.7	4.7
11	2.2	2.1	2.2	2.2	2.2	2.2	2.2
12	2.1	2.1	2.1	2.1	2.1	2.1	2.1
13	0	0	0	0	0	0	0
14	31.4	314	31.4	31.4	31.4	314	31.4
15	0	0	0	0	0	0	0
16	1.3	1.3	1.3	1.3	1.3	1.4	1.3

9 . IC CODEC CS4228 VOLTAGE CHART

MODE / PIN No.	IC CODEC (ICD01)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
1(*)	0	3.3	3.3	0	0	3.3	0
2	0	3.3	3.3	0	0	3.3	0
3	0	3.3	3.3	0	0	3.3	0
4	3.3	3.3	3.3	3.3	3.3	3.3	3.3
5	3.3	3.3	3.3	3.3	3.3	3.3	3.3
6	3.3	3.3	3.3	3.3	3.3	3.3	3.3
7	0	0	0	0	0	0	0
8	5	5	5	5	5	5	5
9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
10	1.6	1.6	1.6	1.6	1.6	1.6	1.6
11	3.3	3.3	3.3	3.3	3.3	3.3	3.3
12	3.3	3.3	3.3	3.3	3.3	3.3	3.3
13	0	0	0	0	0	0	0
14	3.3	3.3	3.3	3.3	3.3	3.3	3.3

MODE / PIN No.	IC CODEC (ICD01)						
	STOP	REC	PLAY	REW/ F.FWD	REV/FWD SEARCH	REC PAUSE	PLAY PAUSE
15	3.3	3.3	3.3	3.3	3.3	3.3	3.3
16	2.2	2.2	2.2	2.2	2.2	2.2	2.2
17	2.2	2.2	2.2	2.2	2.2	2.2	2.2
18	3.7	3.7	3.7	3.7	3.7	3.7	3.7
19	2.2	2.2	2.2	2.2	2.2	2.2	2.2
20	2.2	2.2	2.2	2.2	2.2	2.2	2.2
21	5.1	5.1	5.1	5.1	5.1	5.1	5.1
22	0	0	0	0	0	0	0
23	2.3	2.3	2.3	2.3	2.3	2.3	2.3
24	2.3	2.3	2.3	2.3	2.3	2.3	2.3
25	2.3	2.3	2.3	2.3	2.3	2.3	2.3
26	2.3	2.3	2.3	2.3	2.3	2.3	2.3
27	2.3	2.3	2.3	2.3	2.3	2.3	2.3
28(*)	2.3	2.3	2.3	2.3	2.3	2.3	2.3

* This can be measured in the only default and configuration 1 mode.

10. AMP MI-COM VOLTAGE CHART(W78E58BP-42)

1. DVD MODE

MODE / PINNO.	IC MI-COM(IC220)	
	HEADPHONE (X)	HEADPHONE (O)
1	5.2	5.2
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	5.7/0 (※1)	5.7/0 (※1)
8	5.7/0 (※1)	5.7/0 (※1)
9	4.7	4.7
10	0	0
11	5.2	5.2
12	5.2	5.2
13	5.2	5.2
14	5.0	5.0
15	5.2	5.2
16	5.2/0 (※2)	5.2/0 (※2)
17	0/5.2 (※2)	0/5.2 (※2)
18	5.2/0 (※2)	5.2/0 (※2)
19	5.2/0 (※2)	5.2/0 (※2)
20	5.5	5.5
21	5.3	5.3
22	0	0

MODE / PINNO.	IC MI-COM(IC220)	
	HEADPHONE (X)	HEADPHONE (O)
23	5.2	5.2
24	5.2/0 (※2)	5.2/0 (※2)
25	4	4
26	0	5.2
27	3	0
28	5.2	5.2
29	5.2	5.2
30	5.2	5.2
31	0	0
32	5.3	5.3
33	5.1	3.3
34	5.2	5.2
35	5.2	5.2
36	5.1	5.1
37	5.3	5.3
38	5.3	5.3
39	5.1	5.1
40	3.3	3.3
41	3.3	3.3
42	3.3	3.3
43	3.3	3.3
44	5.2	5.2

2. EXTERNAL INPUT

1) VCR MODE

MODE / PINNO.	IC MI-COM(IC220)	
	HEADPHONE (X)	HEADPHONE (O)
1	5.2	5.2
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	5.7/0 (※1)	5.7/0 (※1)
8	5.7/0 (※1)	5.7/0 (※1)
9	4.7	4.7
10	0	0
11	5.2	5.2
12	5.2	5.2
13	5.2	5.2
14	5.0	5.0
15	5.2	5.2
16	5.2/0 (※2)	5.2/0 (※2)
17	0/5.2 (※2)	0/5.2 (※2)
18	5.2/0 (※2)	5.2/0 (※2)
19	5.2/0 (※2)	5.2/0 (※2)
20	5.5	5.5
21	5.3	5.3
22	0	0

MODE / PINNO.	IC MI-COM(IC220)	
	HEADPHONE (X)	HEADPHONE (O)
23	5.2	5.2
24	5.2/0 (※2)	5.2/0 (※2)
25	4	4
26	0	5.2
27	3	0
28	5.2	5.2
29	5.2	5.2
30	5.2	5.2
31	0	0
32	5.3	5.3
33	5.1	5.1
34	5.2	5.2
35	5.2	5.2
36	5.1	5.1
37	5.3	5.3
38	5.3	5.3
39	5.1	5.1
40	3.3	3.3
41	3.3	3.3
42	3.3	3.3
43	3.3	3.3
44	5.2	5.2

2) AM/FM MODE

MODE / PINNO.	IC MI-COM(IC220)			
	AM		FM	
	signal (X)	signal (O)	signal (X)	signal(O)
1	5.2	5.2	5.2	5.2
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	5.2	5.2	5.2	0
8	5.2	0	5.2	0
9	4.7	4.7	4.7	4.7
10	0	0	0	0
11	5.2	5.2	5.2	5.2
12	5.2	5.2	5.2	5.2
13	5.2	5.2	5.2	5.2
14	5.0	5.0	5.0	5.0
15	5.2	5.2	5.2	5.2
16	5.2/0 (※2)	5.2/0 (※2)	5.2/0 (※2)	5.2/0 (※2)
17	5.2/0 (※2)	5.2/0 (※2)	5.2/0 (※2)	5.2/0 (※2)
18	5.2/0 (※2)	5.2/0 (※2)	5.2/0 (※2)	5.2/0 (※2)
19	5.2/0 (※2)	5.2/0 (※2)	5.2/0 (※2)	5.2/0 (※2)
20	5.5	5.5	5.5	5.5
21	5.3	5.3	5.3	5.3
22	0	0	0	0

MODE / PINNO.	IC MI-COM(IC220)			
	AM		FM	
	signal (X)	signal (O)	signal(X)	signal(O)
23	5.2	5.2	5.2	5.2
24	5.2/0 (※2)	5.2/0 (※2)	5.2/0 (※2)	5.2/0 (※2)
25	4	4	4	4
26	0	0	0	0
27	3	3	3	3
28	5.2	5.2	5.2	5.2
29	5.2	5.2	5.2	5.2
30	5.2	5.2	5.2	5.2
31	0	0	0	0
32	5.3	5.3	5.3	5.3
33	5.1	5.1	5.1	5.1
34	5.2	5.2	5.2	5.2
35	5.2	5.2	5.2	5.2
36	5.1	5.1	5.1	5.1
37	5.3	5.3	5.3	5.3
38	5.3	5.3	5.3	5.3
39	5.1	5.1	5.1	5.1
40	3.3	3.3	3.3	3.3
41	3.3	3.3	3.3	3.3
42	3.3	3.3	3.3	3.3
43	3.3	3.3	3.3	3.3
44	5.2	5.2	5.2	5.2

*1 : It is changed according to the state of AM/FM.

*2 : It is changed according to the option resistances(R205, R206, R207, R208, R209).

- Existing option resistances : 0V
- No existing option resistances : 5.2V

11. AMP DDX-8000 VOLTAGE CHART(DDX-8000)

1. SPEAKER SETUP : Default, Configuration1

1) DVD

MODE / PINNO.	IC DDX-8000(IC200)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
4	0	0	0	0	0	0	0	0
5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
6	0	3.3	0	3.3	0	3.3	0	3.3
7	0	3.3	0	3.3	0	3.3	0	3.3
8	0	0	0	0	0	3.3	0	3.3
9	0	3.3	0	3.3	0	3.3	0	3.3
10	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
11	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
12	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
13	0	0	0	0	0	0	0	0
14	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
15	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
16	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0
18	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
19	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
20	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
21	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
22	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
23	0	0	0	0	0	0	0	0
24	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
25	0	0	0	0	0	0	0	0
26	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
27	0	0	0	0	0	0	0	0
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
30	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
31	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
32	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1

MODE / PINNO.	IC DDX-8000(IC200)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
33	0	5.1	0	5.1	0	5.1	0	5.1
34	0	5.1	0	5.1	0	5.1	0	5.1
35	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
36	0	0	0	0	0	0	0	0
37	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
38	0	0	0	0	0	5.1	0	5.1
39	0	0	0	0	0	5.1	0	5.1
40	0	0	0	0	0	5.1	0	5.1
41	0	0	0	0	0	5.1	0	5.1
42	0	0	0	0	0	5.1	0	5.1
43	0	0	0	0	0	5.1	0	5.1
44	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
45	0	0	0	0	0	0	0	0
46	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
47	0	5.1	0	5.1	0	5.1	0	5.1
48	0	5.1	0	5.1	0	5.1	0	5.1
49	0	5.1	0	5.1	0	5.1	0	5.1
50	0	5.1	0	5.1	0	5.1	0	5.1
51	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
52	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
53	0	0	0	0	0	0	0	0
54	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
55	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0
59	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
60	0	0	0	0	0	0	0	0
61	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
62	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0
64	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3

VOLTAGE CHART

1) EXTERNAL INPUT

(1) VIDEO MODE

MODE / PINNO.	IC DDX-8000(IC200)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
4	0	0	0	0	0	0	0	0
5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
7	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
8	0	0	0	0	3.3	3.3	3.3	3.3
9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
10	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
11	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
12	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
13	0	0	0	0	0	0	0	0
14	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
15	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
16	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0
18	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
19	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
20	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
21	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
22	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
23	0	0	0	0	0	0	0	0
24	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
25	0	0	0	0	0	0	0	0
26	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
27	0	0	0	0	0	0	0	0
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
30	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
31	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
32	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1

MODE / PINNO.	IC DDX-8000(IC200)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
33	0	5.1	0	0	0	5.1	0	0
34	0	5.1	0	0	0	5.1	0	0
35	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
36	0	0	0	0	0	0	0	0
37	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
38	0	0	0	0	0	5.1	0	0
39	0	0	0	0	0	5.1	0	0
40	0	0	0	0	0	5.1	0	0
41	0	0	0	0	0	5.1	0	0
42	0	0	0	0	0	5.1	0	0
43	0	0	0	0	0	5.1	0	0
44	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
45	0	0	0	0	0	0	0	0
46	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
47	0	5.1	0	5.1	0	5.1	0	0
48	0	5.1	0	5.1	0	5.1	0	0
49	0	5.1	0	5.1	0	5.1	0	0
50	0	5.1	0	5.1	0	5.1	0	0
51	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
52	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
53	0	0	0	0	0	0	0	0
54	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
55	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0
59	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
60	0	0	0	0	0	0	0	0
61	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
62	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0
64	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3

(2) AM/FM MODE

MODE / PINNO.	IC DDX-8000(IC200)				MODE / PINNO.	IC DDX-8000(IC200)			
	2CH		5.1CH			2CH		5.1CH	
	AM	FM	AM	FM		AM	FM	AM	FM
1	0	0	0	0	33	5.1	5.1	5.1	5.1
2	0	0	0	0	34	5.1	5.1	5.1	5.1
3	3.3	3.3	3.3	3.3	35	3.3	3.3	3.3	3.3
4	0	0	0	0	36	0	0	0	0
5	2.5	2.5	2.5	2.5	37	2.5	2.5	2.5	2.5
6	3.3	3.3	3.3	3.3	38	5.1	0	5.1	5.1
7	3.3	3.3	3.3	3.3	39	5.1	0	5.1	5.1
8	0	0	3.3	3.3	40	5.1	0	5.1	5.1
9	3.3	3.3	3.3	3.3	41	5.1	0	5.1	5.1
10	3.35	3.35	3.35	3.35	42	5.1	0	5.1	5.1
11	3.35	3.35	3.35	3.35	43	5.1	0	5.1	5.1
12	3.3	3.3	3.3	3.3	44	3.3	3.3	3.3	3.3
13	0	0	0	0	45	0	0	0	0
14	2.5	2.5	2.5	2.5	46	2.5	2.5	2.5	2.5
15	3.3	3.3	3.3	3.3	47	5.1	5.1	5.1	5.1
16	0	0	0	0	48	5.1	5.1	5.1	5.1
17	0	0	0	0	49	5.1	5.1	5.1	5.1
18	3.3	3.3	3.3	3.3	50	5.1	5.1	5.1	5.1
19	3.3	3.3	3.3	3.3	51	3.3	3.3	3.3	3.3
20	3.2	3.2	3.2	3.2	52	3.3	3.3	3.3	3.3
21	1.2	1.2	1.2	1.2	53	0	0	0	0
22	2.5	2.5	2.5	2.5	54	2.5	2.5	2.5	2.5
23	0	0	0	0	55	0	0	0	0
24	3.3	3.3	3.3	3.3	56	0	0	0	0
25	0	0	0	0	57	0	0	0	0
26	2.5	2.5	2.5	2.5	58	0	0	0	0
27	0	0	0	0	59	3.3	3.3	3.3	3.3
28	3.3	3.3	3.3	3.3	60	0	0	0	0
29	5.1	5.1	5.1	5.1	61	2.5	2.5	2.5	2.5
30	5.1	5.1	5.1	5.1	62	0	0	0	0
31	5.1	5.1	5.1	5.1	63	0	0	0	0
32	5.1	5.1	5.1	5.1	64	3.3	3.3	3.3	3.3

2. SPEAKER SETUP : Configuration 2 , 3

1) DVD

MODE / PINNO.	IC DDX-8000(IC200)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
4	0	0	0	0	0	0	0	0
5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
6	0	3.3	0	3.3	0	3.3	0	3.3
7	0	0	0	0	0	3.3	0	3.3
8	0	0	0	0	0	3.3	0	3.3
9	0	3.3	0	3.3	0	3.3	0	3.3
10	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
11	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
12	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
13	0	0	0	0	0	0	0	0
14	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
15	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
16	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0
18	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
19	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
20	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
21	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
22	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
23	0	0	0	0	0	0	0	0
24	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
25	0	0	0	0	0	0	0	0
26	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
27	0	0	0	0	0	0	0	0
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
30	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
31	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
32	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1

MODE / PINNO.	IC DDX-8000(IC200)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
33	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0
35	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
36	0	0	0	0	0	0	0	0
37	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
38	0	0	0	0	0	5.1	0	5.1
39	0	0	0	0	0	5.1	0	5.1
40	0	0	0	0	0	5.1	0	5.1
41	0	0	0	0	0	5.1	0	5.1
42	0	0	0	0	0	5.1	0	5.1
43	0	0	0	0	0	5.1	0	5.1
44	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
45	0	0	0	0	0	0	0	0
46	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
47	0	5.1	0	5.1	0	5.1	0	5.1
48	0	5.1	0	5.1	0	5.1	0	5.1
49	0	5.1	0	5.1	0	5.1	0	5.1
50	0	5.1	0	5.1	0	5.1	0	5.1
51	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
52	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
53	0	0	0	0	0	0	0	0
54	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
55	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0
59	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
60	0	0	0	0	0	0	0	0
61	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
62	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0
64	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3

2) EXTERNAL INPUT
(1) VIDEO MODE

MODE / PINNO.	IC DDX-8000(IC200)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
4	0	0	0	0	0	0	0	0
5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
7	0	0	0	0	3.3	3.3	3.3	3.3
8	0	0	0	0	3.3	3.3	3.3	3.3
9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
10	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
11	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
12	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
13	0	0	0	0	0	0	0	0
14	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
15	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
16	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0
18	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
19	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
20	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
21	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
22	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
23	0	0	0	0	0	0	0	0
24	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
25	0	0	0	0	0	0	0	0
26	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
27	0	0	0	0	0	0	0	0
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
30	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
31	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
32	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1

MODE / PINNO.	IC DDX-8000(IC200)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
33	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0
35	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
36	0	0	0	0	0	0	0	0
37	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
38	0	0	0	0	0	5.1	0	0
39	0	0	0	0	0	5.1	0	0
40	0	0	0	0	0	5.1	0	0
41	0	0	0	0	0	5.1	0	0
42	0	0	0	0	0	5.1	0	0
43	0	0	0	0	0	5.1	0	0
44	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
45	0	0	0	0	0	0	0	0
46	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
47	0	5.1	0	5.1	0	5.1	0	0
48	0	5.1	0	5.1	0	5.1	0	0
49	0	5.1	0	5.1	0	5.1	0	0
50	0	5.1	0	5.1	0	5.1	0	0
51	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
52	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
53	0	0	0	0	0	0	0	0
54	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
55	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0
59	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
60	0	0	0	0	0	0	0	0
61	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
62	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0
64	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3

(2) AM/FM MODE

MODE / PINNO.	IC DDX-8000(IC200)				MODE / PINNO.	IC DDX-8000(IC200)			
	2CH		5.1CH			2CH		5.1CH	
	AM	FM	AM	FM		AM	FM	AM	FM
1	0	0	0	0	33	5.1	0	5.1	0
2	0	0	0	0	34	5.1	0	5.1	0
3	3.3	3.3	3.3	3.3	35	3.3	3.3	3.3	3.3
4	0	0	0	0	36	0	0	0	0
5	2.5	2.5	2.5	2.5	37	2.5	2.5	2.5	2.5
6	3.3	3.3	3.3	3.3	38	5.1	0	5.1	5.1
7	0	0	3.3	3.3	39	5.1	0	5.1	5.1
8	0	0	3.3	3.3	40	5.1	0	5.1	5.1
9	3.3	3.3	3.3	3.3	41	5.1	0	5.1	5.1
10	3.35	3.35	3.35	3.35	42	5.1	0	5.1	5.1
11	3.35	3.35	3.35	3.35	43	5.1	0	5.1	5.1
12	3.3	3.3	3.3	3.3	44	3.3	3.3	3.3	3.3
13	0	0	0	0	45	0	0	0	0
14	2.5	2.5	2.5	2.5	46	2.5	2.5	2.5	2.5
15	3.3	3.3	3.3	3.3	47	5.1	5.1	5.1	5.1
16	0	0	0	0	48	5.1	5.1	5.1	5.1
17	0	0	0	0	49	5.1	5.1	5.1	5.1
18	3.3	3.3	3.3	3.3	50	5.1	5.1	5.1	5.1
19	3.3	3.3	3.3	3.3	51	3.3	3.3	3.3	3.3
20	3.2	3.2	3.2	3.2	52	3.3	3.3	3.3	3.3
21	1.2	1.2	1.2	1.2	53	0	0	0	0
22	2.5	2.5	2.5	2.5	54	2.5	2.5	2.5	2.5
23	0	0	0	0	55	0	0	0	0
24	3.3	3.3	3.3	3.3	56	0	0	0	0
25	0	0	0	0	57	0	0	0	0
26	2.5	2.5	2.5	2.5	58	0	0	0	0
27	0	0	0	0	59	3.3	3.3	3.3	3.3
28	3.3	3.3	3.3	3.3	60	0	0	0	0
29	5.1	5.1	5.1	5.1	61	2.5	2.5	2.5	2.5
30	5.1	5.1	5.1	5.1	62	0	0	0	0
31	5.1	5.1	5.1	5.1	63	0	0	0	0
32	5.1	5.1	5.1	5.1	64	3.3	3.3	3.3	3.3

12. AMP DDX-2100 VOLTAGE CHART(DDX-2100)

1. SPEAKER SETUP : Default , configuration1

1) DVD

MODE / PINNO.	DDX-2100(IC301)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	32.5	0	0
3	0	0	0	0	0	32.5	0	0
4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
8	0	0	0	0	0	32.5	0	0
9	0	0	0	0	0	32.5	0	0
10	0	0	0	0	0	32.5	0	
11	0	0	0	0	0	32.5	0	0
12	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
16	0	0	0	0	0	32.5	0	0
17	0	0	0	0	0	32.5	0	0
18	0	0	0	0	0	0	0	0

MODE / PINNO.	DDX-2100(IC301)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
24	0	0	0	0	0	0	0	0
25	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
26	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	0	0	0	0	0	5.1	0	0
30	0	0	0	0	0	5.1	0	0
31	0	0	0	0	0	5.1	0	0
32	0	0	0	0	0	5.1	0	0
33	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25
35	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5

MODE / PINNO.	DDX-2100(IC330)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	32.5	0	0	0	32.5	0	0
3	0	32.5	0	0	0	32.5	0	0
4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
10	0	32.5	0	0	0	32.5	0	0
11	0	32.5	0	0	0	32.5	0	0
12	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
16	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0

MODE / PINNO.	DDX-2100(IC330)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
24	0	0	0	0	0	0	0	0
25	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
26	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	0	5.1	0	0	0	5.1	0	0
30	0	5.1	0	0	0	5.1	0	0
31	0	5.1	0	0	0	5.1	0	0
32	0	5.1	0	0	0	5.1	0	0
33	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25
35	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5

VOLTAGE CHART

MODE / PINNO.	DDX-2100(IC360)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	32.5	0	0	0	32.5	0	0
3	0	32.5	0	0	0	32.5	0	0
4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
8	0	32.5	0	0	0	32.5	0	0
9	0	32.5	0	0	0	32.5	0	0
10	0	0	0	0	0	32.5	0	0
11	0	0	0	0	0	32.5	0	0
12	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
16	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0

MODE / PINNO.	DDX-2100(IC360)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
24	0	0	0	0	0	0	0	0
25	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
26	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	0	0	0	0	0	5.1	0	0
30	0	0	0	0	0	5.1	0	0
31	0	5.1	0	0	0	5.1	0	0
32	0	5.1	0	0	0	5.1	0	0
33	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25
35	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5

2) EXTERNAL INPUT

(1) VIDEO MODE

MODE / PINNO.	DDX-2100(IC301)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	32.5	0	0
3	0	0	0	0	0	32.5	0	0
4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
8	0	0	0	0	0	32.5	0	0
9	0	0	0	0	0	32.5	0	0
10	0	0	0	0	0	32.5	0	0
11	0	0	0	0	0	32.5	0	0
12	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
16	0	0	0	0	0	32.5	0	0
17	0	0	0	0	0	32.5	0	0
18	0	0	0	0	0	0	0	0

MODE / PINNO.	DDX-2100(IC301)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
24	0	0	0	0	0	0	0	0
25	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
26	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	0	0	0	0	0	5.1	0	0
30	0	0	0	0	0	5.1	0	0
31	0	0	0	0	0	5.1	0	0
32	0	0	0	0	0	5.1	0	0
33	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25
35	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5

MODE / PINNO.	DDX-2100(IC330)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	32.5	0	0	0	32.5	0	0
3	0	32.5	0	0	32.5	32.5	0	0
4	32.5	32.5	32.5	32.5	0	32.5	32.5	32.5
5	0	0	0	0	0	0	0	0
6	0	0	0	0	32.5	0	0	0
7	32.5	32.5	32.5	32.5	0	32.5	32.5	32.5
8	0	32.5	0	0	0	32.5	0	0
9	0	32.5	0	0	0	32.5	0	0
10	0	32.5	0	0	0	32.5	0	0
11	0	32.5	0	0	32.5	32.5	0	0
12	32.5	32.5	32.5	32.5	0	32.5	32.5	32.5
13	0	0	0	0	0	0	0	0
14	0	0	0	0	32.5	0	0	0
15	32.5	32.5	32.5	32.5	0	32.5	32.5	32.5
16	0	32.5	0	0	0	32.5	0	0
17	0	32.5	0	0	0	32.5	0	0
18	0	0	0	0	0	0	0	0

MODE / PINNO.	DDX-2100(IC330)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
24	0	0	0	0	0	0	0	0
25	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
26	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	0	5.1	0	0	0	5.1	0	0
30	0	5.1	0	0	0	5.1	0	0
31	0	5.1	0	0	0	5.1	0	0
32	0	5.1	0	0	0	5.1	0	0
33	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25
35	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5

MODE / PINNO.	DDX-2100(IC360)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	32.5	0	0	0	32.5	0	0
3	0	32.5	0	0	0	32.5	0	0
4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
8	0	32.5	0	0	0	32.5	0	0
9	0	32.5	0	0	0	32.5	0	0
10	0	0	0	0	0	32.5	0	0
11	0	0	0	0	0	32.5	0	0
12	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
16	0	0	0	0	0	32.5	0	0
17	0	0	0	0	0	32.5	0	0
18	0	0	0	0	0	0	0	0

MODE / PINNO.	DDX-2100(IC360)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
24	0	0	0	0	0	0	0	0
25	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
26	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	0	0	0	0	0	5.1	0	0
30	0	0	0	0	0	5.1	0	0
31	0	5.1	0	0	0	5.1	0	0
32	0	5.1	0	0	0	5.1	0	0
33	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25
35	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5

VOLTAGE CHART

(2) AM/FM MODE

MODE / PINNO.	IC DDX-2100(IC301)			
	2CH		5.1CH	
	AM	FM	AM	FM
1	0	0	0	0
2	32.5	0	32.5	32.5
3	32.5	0	32.5	32.5
4	32.5	32.5	32.5	32.5
5	0	0	0	0
6	0	0	0	0
7	32.5	32.5	32.5	32.5
8	32.5	0	32.5	32.5
9	32.5	0	32.5	32.5
10	32.5	0	32.5	32.5
11	32.5	0	32.5	32.5
12	32.5	32.5	32.5	32.5
13	0	0	0	0
14	0	0	0	0
15	32.5	32.5	32.5	32.5
16	32.5	0	32.5	32.5
17	32.5	0	32.5	32.5
18	0	0	0	0

MODE / PINNO.	IC DDX-2100(IC301)			
	2CH		5.1CH	
	AM	FM	AM	FM
19	0	0	0	0
20	0	0	0	0
21	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3
24	0	0	0	0
25	3.3	3.3	3.3	3.3
26	4	4	4	4
27	4	4	4	4
28	3.3	3.3	3.3	3.3
29	5.1	0	5.1	5.1
30	5.1	0	5.1	5.1
31	5.1	0	5.1	5.1
32	5.1	0	5.1	5.1
33	25	25	25	25
34	25	25	25	25
35	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5

MODE / PIN NO.	ICDDX-2100(IC330)			
	2CH		5.1CH	
	AM	FM	AM	FM
1	0	0	0	0
2	32.5	32.5	32.5	32.5
3	32.5	32.5	32.5	32.5
4	32.5	32.5	32.5	32.5
5	0	0	0	0
6	0	0	0	0
7	32.5	32.5	32.5	32.5
8	32.5	32.5	32.5	32.5
9	32.5	32.5	32.5	32.5
10	32.5	32.5	32.5	32.5
11	32.5	32.5	32.5	32.5
12	32.5	32.5	32.5	32.5
13	0	0	0	0
14	0	0	0	0
15	32.5	32.5	32.5	32.5
16	32.5	32.5	32.5	32.5
17	32.5	32.5	32.5	32.5
18	0	0	0	0

MODE / PINNO.	IC DDX-2100(IC330)			
	2CH		5.1CH	
	AM	FM	AM	FM
19	0	0	0	0
20	0	0	0	0
21	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3
24	0	0	0	0
25	3.3	3.3	3.3	3.3
26	4	4	4	4
27	4	4	4	4
28	3.3	3.3	3.3	3.3
29	5.1	5.1	5.1	5.1
30	5.1	5.1	5.1	5.1
31	5.1	5.1	5.1	5.1
32	5.1	5.1	5.1	5.1
33	25	25	25	25
34	25	25	25	25
35	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5

MODE / PINNO.	IC DDX-2100(IC360)			
	2CH		5.1CH	
	AM	FM	AM	FM
1	0	0	0	0
2	32.5	32.5	32.5	32.5
3	32.5	32.5	32.5	32.5
4	32.5	32.5	32.5	32.5
5	0	0	0	0
6	0	0	0	0
7	32.5	32.5	32.5	32.5
8	32.5	32.5	32.5	32.5
9	32.5	32.5	32.5	32.5
10	32.5	0	32.5	32.5
11	32.5	0	32.5	32.5
12	32.5	32.5	32.5	32.5
13	0	0	0	0
14	0	0	0	0
15	32.5	32.5	32.5	32.5
16	32.5	0	32.5	32.5
17	32.5	0	32.5	32.5
18	0	0	0	0

MODE / PINNO.	IC DDX-2100(IC360)			
	2CH		5.1CH	
	AM	FM	AM	FM
19	0	0	0	0
20	0	0	0	0
21	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3
24	0	0	0	0
25	3.3	3.3	3.3	3.3
26	4	4	4	4
27	4	4	4	4
28	3.3	3.3	3.3	3.3
29	5.1	0	5.1	5.1
30	5.1	0	5.1	5.1
31	5.1	5.1	5.1	5.1
32	5.1	5.1	5.1	5.1
33	25	25	25	25
34	25	25	25	25
35	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5

2. SPEAKER SETUP :Configuration 2, 3

1) DVD

MODE / PINNO.	DDX-2100(IC301)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	32.5	0	0
3	0	0	0	0	0	32.5	0	0
4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
8	0	0	0	0	0	32.5	0	0
9	0	0	0	0	0	32.5	0	0
10	0	0	0	0	0	32.5	0	0
11	0	0	0	0	0	32.5	0	0
12	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
16	0	0	0	0	0	32.5	0	0
17	0	0	0	0	0	32.5	0	0
18	0	0	0	0	0	0	0	0

MODE / PINNO.	DDX-2100(IC301)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
24	0	0	0	0	0	0	0	0
25	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
26	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	0	0	0	0	0	5.1	0	0
30	0	0	0	0	0	5.1	0	0
31	0	0	0	0	0	5.1	0	0
32	0	0	0	0	0	5.1	0	0
33	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25
35	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5

VOLTAGE CHART

MODE / PINNO.	DDX-2100(IC330)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	32.5	0	0	0	32.5	0	0
3	0	32.5	0	0	0	32.5	0	0
4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
8	0	32.5	0	0	0	32.5	0	0
9	0	32.5	0	0	0	32.5	0	0
10	0	32.5	0	0	0	32.5	0	0
11	0	32.5	0	0	0	32.5	0	0
12	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
16	0	32.5	0	0	0	32.5	0	0
17	0	32.5	0	0	0	32.5	0	0
18	0	0	0	0	0	0	0	0

MODE / PINNO.	DDX-2100(IC330)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
24	0	0	0	0	0	0	0	0
25	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
26	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	0	5.1	0	0	0	5.1	0	0
30	0	5.1	0	0	0	5.1	0	0
31	0	5.1	0	0	0	5.1	0	0
32	0	5.1	0	0	0	5.1	0	0
33	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25
35	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5

MODE / PINNO.	DDX-2100(IC360)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	32.5	0	0
11	0	0	0	0	0	32.5	0	0
12	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
16	0	0	0	0	0	32.5	0	0
17	0	0	0	0	0	32.5	0	0
18	0	0	0	0	0	0	0	0

MODE / PINNO.	DDX-2100(IC360)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
24	0	0	0	0	0	0	0	0
25	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
26	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0
31	0	0	0	0	0	5.1	0	0
32	0	0	0	0	0	5.1	0	0
33	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25
35	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5

2) EXTERNAL INPUT
(1) VIDEO MODE

MODE / PINNO.	DDX-2100(IC301)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	32.5	0	0
3	0	0	0	0	0	32.5	0	0
4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
8	0	0	0	0	0	32.5	0	0
9	0	0	0	0	0	32.5	0	0
10	0	0	0	0	0	32.5	0	0
11	0	0	0	0	0	32.5	0	0
12	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
16	0	0	0	0	0	32.5	0	0
17	0	0	0	0	0	32.5	0	0
18	0	0	0	0	0	0	0	0

MODE / PINNO.	DDX-2100(IC301)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
24	0	0	0	0	0	0	0	0
25	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
26	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	0	0	0	0	0	5.1	0	0
30	0	0	0	0	0	5.1	0	0
31	0	0	0	0	0	5.1	0	0
32	0	0	0	0	0	5.1	0	0
33	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25
35	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5

MODE / PINNO.	DDX-2100(IC330)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	32.5	0	0	0	32.5	0	0
3	0	32.5	0	0	0	32.5	0	0
4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
8	0	32.5	0	0	0	32.5	0	0
9	0	32.5	0	0	0	32.5	0	0
10	0	32.5	0	0	0	32.5	0	0
11	0	32.5	0	0	0	32.5	0	0
12	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
16	0	32.5	0	0	0	32.5	0	0
17	0	32.5	0	0	0	32.5	0	0
18	0	0	0	0	0	0	0	0

MODE / PINNO.	DDX-2100(IC330)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
24	0	0	0	0	0	0	0	0
25	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
26	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	0	5.1	0	0	0	5.1	0	0
30	0	5.1	0	0	0	5.1	0	0
31	0	5.1	0	0	0	5.1	0	0
32	0	5.1	0	0	0	5.1	0	0
33	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25
35	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5

VOLTAGE CHART

MODE / PINNO.	DDX-2100(IC360)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	32.5	0	0
11	0	0	0	0	0	32.5	0	0
12	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
16	0	0	0	0	0	32.5	0	0
17	0	0	0	0	0	32.5	0	0
18	0	0	0	0	0	0	0	0

MODE / PINNO.	DDX-2100(IC360)							
	2CH				5.1CH			
	STOP	PLAY	PLAY PAUSE	MUTE	STOP	PLAY	PLAY PAUSE	MUTE
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
24	0	0	0	0	0	0	0	0
25	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
26	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4
28	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
29	0	0	0	0	0	5.1	0	0
30	0	0	0	0	0	5.1	0	0
31	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0
33	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25
35	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5

(2) AM/FM MODE

MODE / PINNO.	IC DDX-2100(IC301)			
	2CH		5.1CH	
	AM	FM	AM	FM
1	0	0	0	0
2	32.5	0	32.5	32.5
3	32.5	0	32.5	32.5
4	32.5	32.5	32.5	32.5
5	0	0	0	0
6	0	0	0	0
7	32.5	32.5	32.5	32.5
8	32.5	0	32.5	32.5
9	32.5	0	32.5	32.5
10	32.5	0	32.5	32.5
11	32.5	0	32.5	32.5
12	32.5	32.5	32.5	32.5
13	0	0	0	0
14	0	0	0	0
15	32.5	32.5	32.5	32.5
16	32.5	0	32.5	32.5
17	32.5	0	32.5	32.5
18	0	0	0	0

MODE / PINNO.	IC DDX-2100(IC301)			
	2CH		5.1CH	
	AM	FM	AM	FM
19	0	0	0	0
20	0	0	0	0
21	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3
24	0	0	0	0
25	3.3	3.3	3.3	3.3
26	4	4	4	4
27	4	4	4	4
28	3.3	3.3	3.3	3.3
29	5.1	0	5.1	5.1
30	5.1	0	5.1	5.1
31	5.1	0	5.1	5.1
32	5.1	0	5.1	5.1
33	25	25	25	25
34	25	25	25	25
35	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5

MODE / PIN NO.	ICDDX-2100(IC330)			
	2CH		5.1CH	
	AM	FM	AM	FM
1	0	0	0	0
2	32.5	32.5	32.5	32.5
3	32.5	32.5	32.5	32.5
4	32.5	32.5	32.5	32.5
5	0	0	0	0
6	0	0	0	0
7	32.5	32.5	32.5	32.5
8	32.5	32.5	32.5	32.5
9	32.5	32.5	32.5	32.5
10	32.5	32.5	32.5	32.5
11	32.5	32.5	32.5	32.5
12	32.5	32.5	32.5	32.5
13	0	0	0	0
14	0	0	0	0
15	32.5	32.5	32.5	32.5
16	32.5	32.5	32.5	32.5
17	32.5	32.5	32.5	32.5
18	0	0	0	0

MODE / PINNO.	IC DDX-2100(IC330)			
	2CH		5.1CH	
	AM	FM	AM	FM
19	0	0	0	0
20	0	0	0	0
21	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3
24	0	0	0	0
25	3.3	3.3	3.3	3.3
26	4	4	4	4
27	4	4	4	4
28	3.3	3.3	3.3	3.3
29	5.1	5.1	5.1	5.1
30	5.1	5.1	5.1	5.1
31	5.1	5.1	5.1	5.1
32	5.1	5.1	5.1	5.1
33	25	25	25	25
34	25	25	25	25
35	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5

MODE / PINNO.	IC DDX-2100(IC360)			
	2CH		5.1CH	
	AM	FM	AM	FM
1	0	0	0	0
2	32.5	0	32.5	0
3	32.5	0	32.5	0
4	32.5	32.5	32.5	32.5
5	0	0	0	0
6	0	0	0	0
7	32.5	32.5	32.5	32.5
8	32.5	0	32.5	0
9	32.5	0	32.5	0
10	32.5	0	32.5	32.5
11	32.5	0	32.5	32.5
12	32.5	32.5	32.5	32.5
13	0	0	0	0
14	0	0	0	0
15	32.5	32.5	32.5	32.5
16	32.5	0	32.5	32.5
17	32.5	0	32.5	32.5
18	0	0	0	0

MODE / PINNO.	IC DDX-2100(IC360)			
	2CH		5.1CH	
	AM	FM	AM	FM
19	0	0	0	0
20	0	0	0	0
21	4.8	4.8	4.8	4.8
22	4.8	4.8	4.8	4.8
23	3.3	3.3	3.3	3.3
24	0	0	0	0
25	3.3	3.3	3.3	3.3
26	4	4	4	4
27	4	4	4	4
28	3.3	3.3	3.3	3.3
29	5.1	0	5.1	5.1
30	5.1	0	5.1	5.1
31	5.1	0	5.1	0
32	5.1	0	5.1	0
33	25	25	25	25
34	25	25	25	25
35	32.5	32.5	32.5	32.5
36	32.5	32.5	32.5	32.5

VOLTAGE CHART

IC SMPS/FET/PHOTO COUPLER/REGULATOR/TR VOLTAGE CHARTS

MODE / PIN No.	SMPS Controller(IC801) [V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
1	NC	NC	NC	NC	NC	NC
2	6	5.6	5.6	5.6	5.6	5.6
3	1.5	2.1	2.3	2.2	2.4	2.1
4	8.6mV	37mV	50mV	42mV	59mV	38mV

MODE / PIN No.	SMPS Controller(IC801) [V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
5	1.55	2.6	2.89	2.64	3	2.6
6	12.5	14	13.9	13.9	14.1	13.9
7	0	0	0	0	0	0
8	NC	NC	NC	NC	NC	NC

MODE / PIN No.	SMPS Controller(IC701) [V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
1	2	2	2.2	1.8	2.3	2.4
2	2.5	2.5	2.5	2.5	2.5	2.5
3	1.4mV	3mV	8mV	5mV	7mV	5mV
4	2	2	1.9	2	1.9	1.9

MODE / PIN No.	SMPS Controller(IC701) [V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
5	0	0	0	0	0	0
6	0.2	0.5	0.9	0.7	0.8	0.7
7	13	14.2	14.6	14.5	14.6	14.5
8	NC	NC	NC	NC	NC	NC

MODE / PIN No.	SWITCHING FET(Q701) [V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
D	143	125	115	118	114	122
G	0.1	0.4	0.7	0.5	0.6	0.5
S	0.8mV	3.2mV	8mV	5mV	7mV	5mV

MODE / PIN No.	SWITCHING FET(Q801) [V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
D	140	128	116	118	112	125
G	1.5	2.5	2.6	2.5	2.9	2.5
S	8.6mV	37mV	47mV	42mV	58mV	38mV

MODE / PIN No.	IC PHOTO COUPLER(PC701) [V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
1	31.6	31.5	31.5	31.6	31.6	31.5
2	30.6	30.5	30.5	30.6	30.6	30.5
3	2.8	2.8	2.8	2.8	2.8	2.8
4	13	14.2	14.6	14.5	14.6	14.5

MODE / PIN No.	IC PHOTO COUPLER(PC801) [V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
1	5.1	5.2	5.2	5.2	5.3	5.2
2	4	4.2	4.2	4.2	4.2	4.2
3	0	0	0	0	0	0
4	1.5	2	2.2	2.1	2.4	2

MODE / PIN No.	IC SHUNT REGULATOR(IC903) [V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
1	2.5	2.5	2.5	2.5	2.5	2.5
2	0	0	0	0	0	0
3	4	4.2	4.2	4.2	4.2	4.2

MODE / PIN No.	IC SHUNT REGULATOR(IC702) [V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
1	2.5	2.5	2.5	2.5	2.5	2.5
2	0	0	0	0	0	0
3	30.6	30.6	30.6	30.6	30.6	30.6

MODE / PIN No.	IC REGULATOR(IC902) [V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
1	6.9	6.3	6.2	6.3	6.2	6.3
2	0	5	5	5	5	5
3	0	0	0	0	0	0
4	0.6	5.1	5.1	5.1	5.1	5.1

MODE / PIN No.	FET(Q903)[V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
D	4.4	3.5	3.4	3.5	3.5	3.4
G	0	13.4	12.7	13.1	12.6	13.3
S	0.2	3.4	3.4	3.4	3.4	3.4

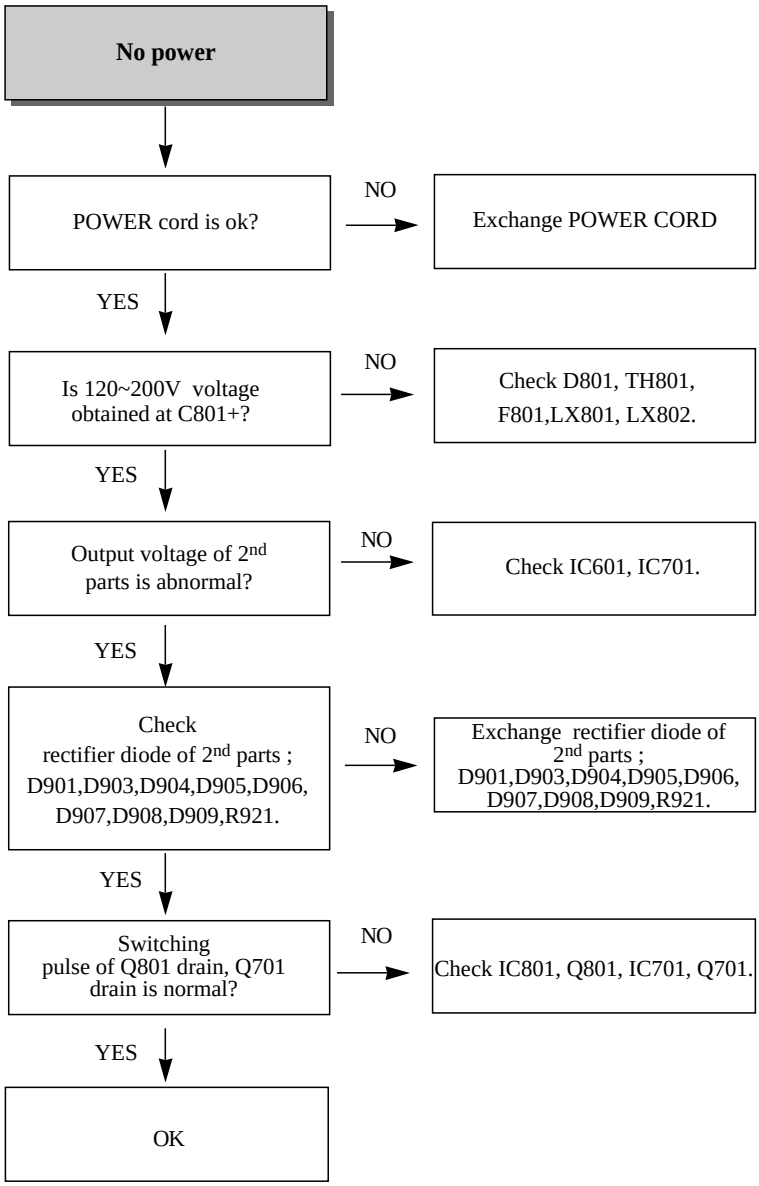
MODE / PIN No.	TR(Q901)[V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
C	0	13.4	12.7	13.1	12.6	13.4
B	14.3	12.7	12	12.4	11.9	12.7
E	14.3	13.4	12.8	13.1	12.7	13.4

MODE / PIN No.	TR(Q902)[V]					
	OFF	PWR ON	DVD PLAY & VCR OFF	DVDOFF VCR PLAY	DVD PLAY &VCR REC	FM/AM
C	14.3	0	0	0	0	0
B	12.8mV	0.7	0.7	0.7	0.7	0.7
E	0	0	0	0	0	0

TROUBLESHOOTING

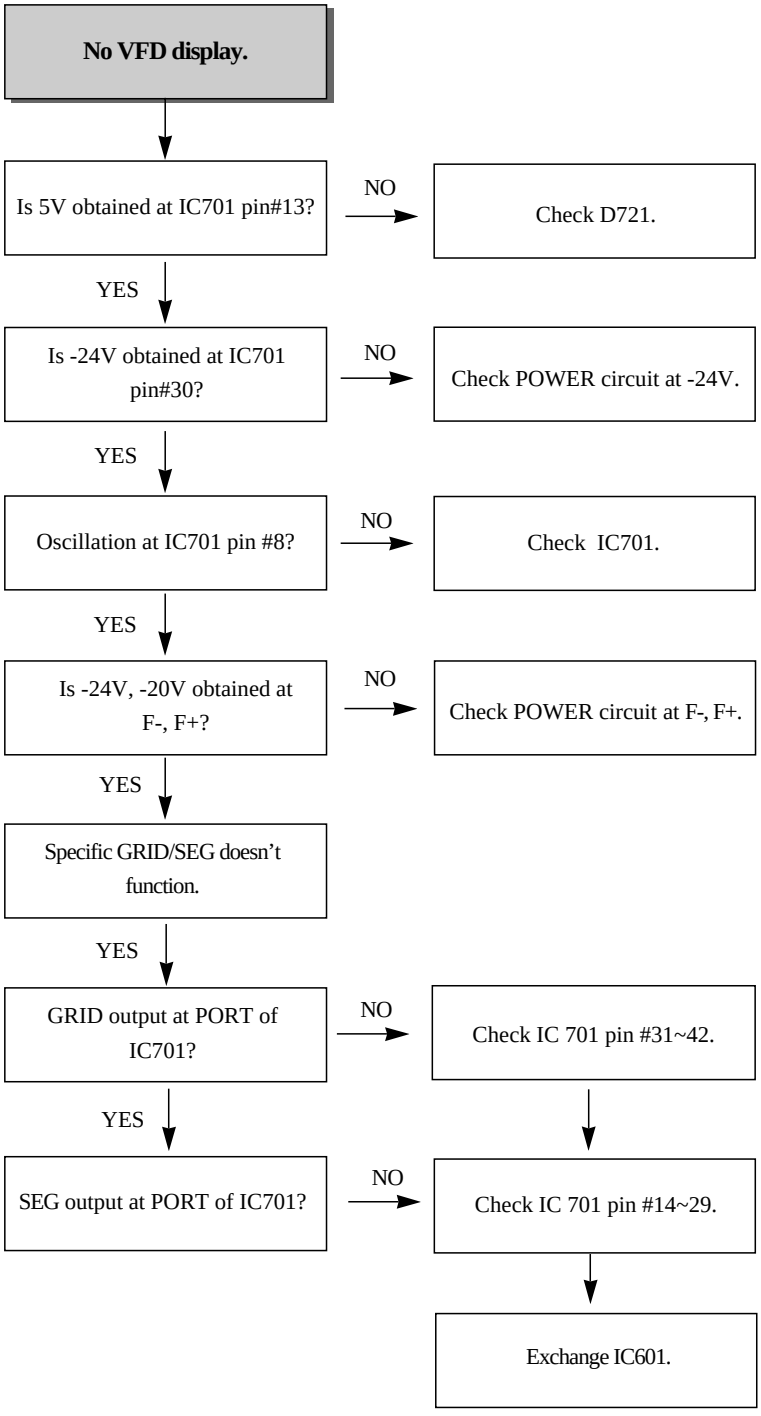
POWER CIRCUIT

◆ **Caution: When checking the primary circuit, be sure to use an isolation transformer.**

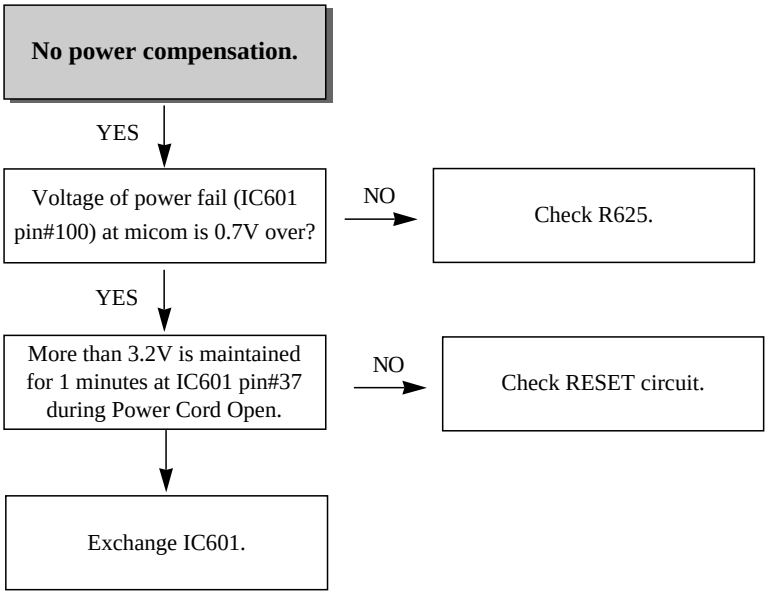


SYSTEM CIRCUIT

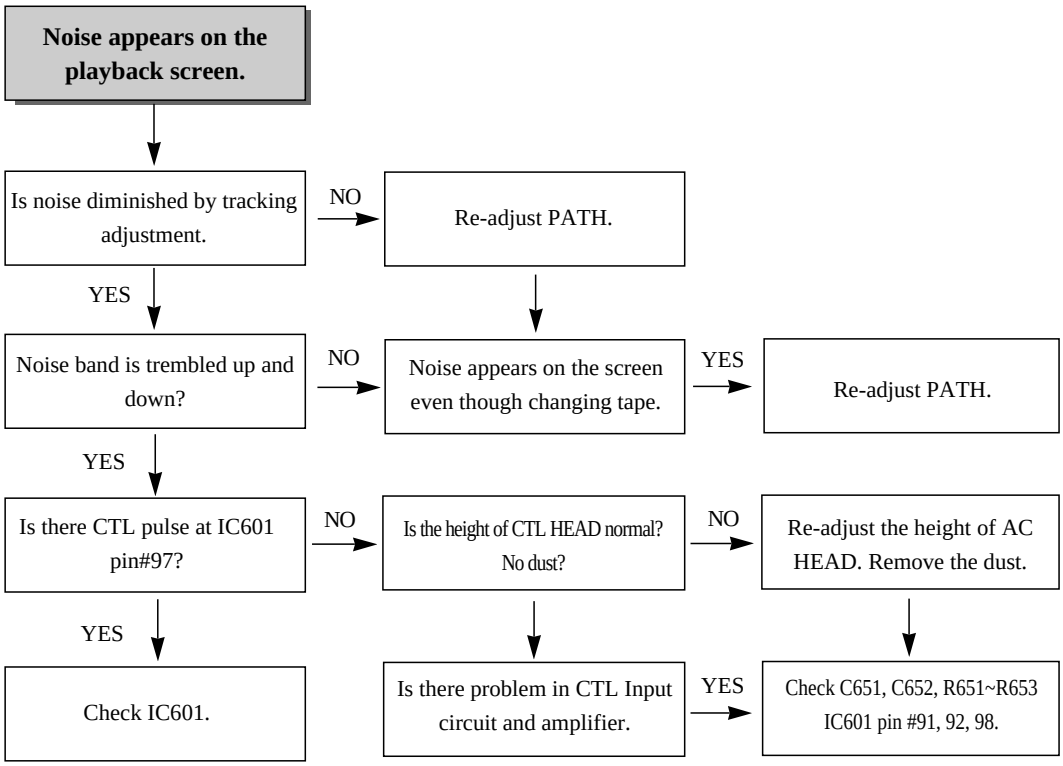
A. VFD DISPLAY



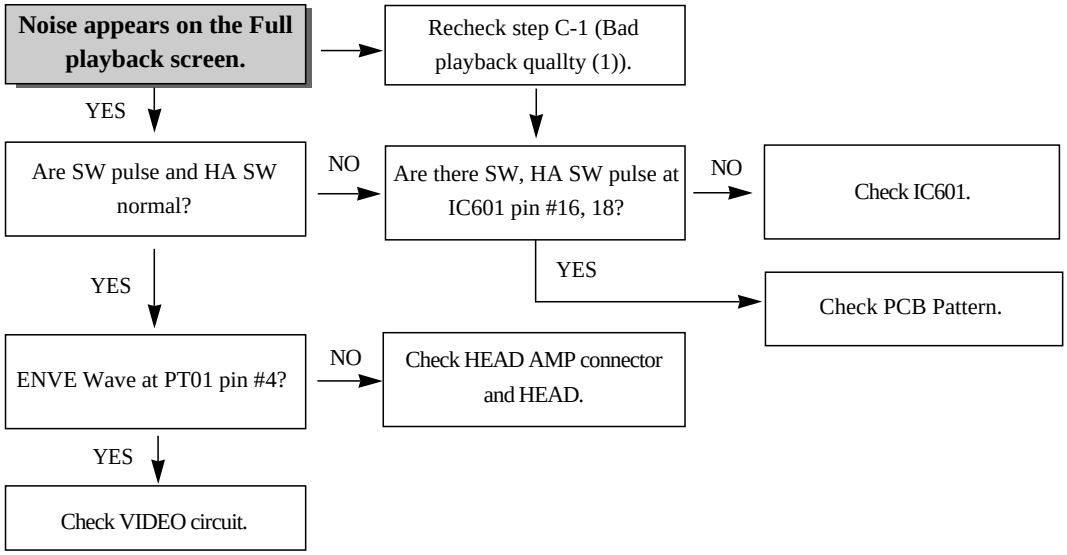
B. No power compensation.


No power compensation.
YES
Voltage of power fail (IC601 pin#100) at micom is 0.7V over?
NO
Check R625.
YES
More than 3.2V is maintained for 1 minutes at IC601 pin#37 during Power Cord Open.
NO
Check RESET circuit.
Exchange IC601.

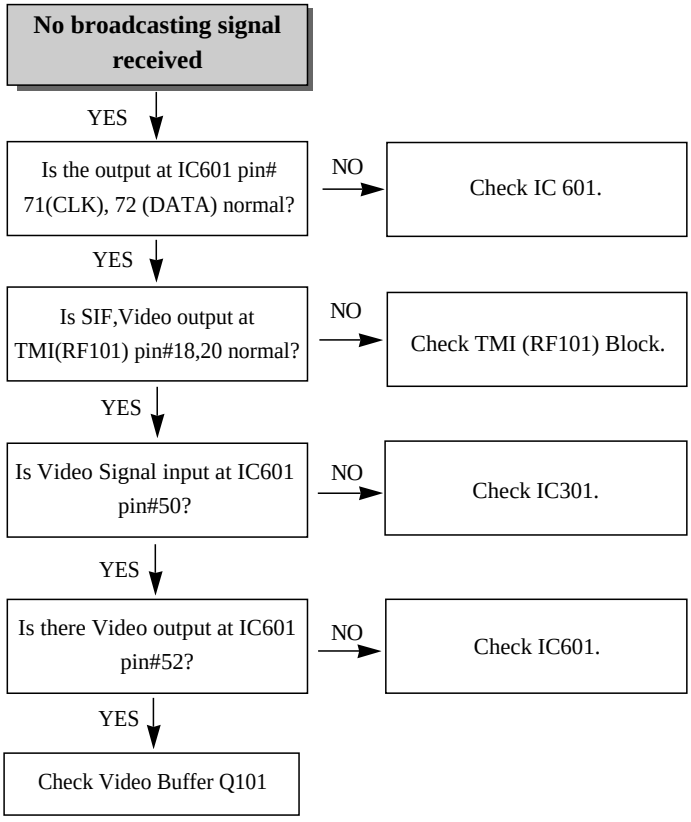
C-1. Bad playback quality (1)


Noise appears on the playback screen.
Is noise diminished by tracking adjustment.
NO
Re-adjust PATH.
YES
Noise band is trembled up and down?
NO
Noise appears on the screen even though changing tape.
YES
Re-adjust PATH.
YES
Is there CTL pulse at IC601 pin#97?
NO
Is the height of CTL HEAD normal? No dust?
NO
Re-adjust the height of AC HEAD. Remove the dust.
YES
Check IC601.
Is there problem in CTL Input circuit and amplifier.
YES
Check C651, C652, R651~R653 IC601 pin #91, 92, 98.

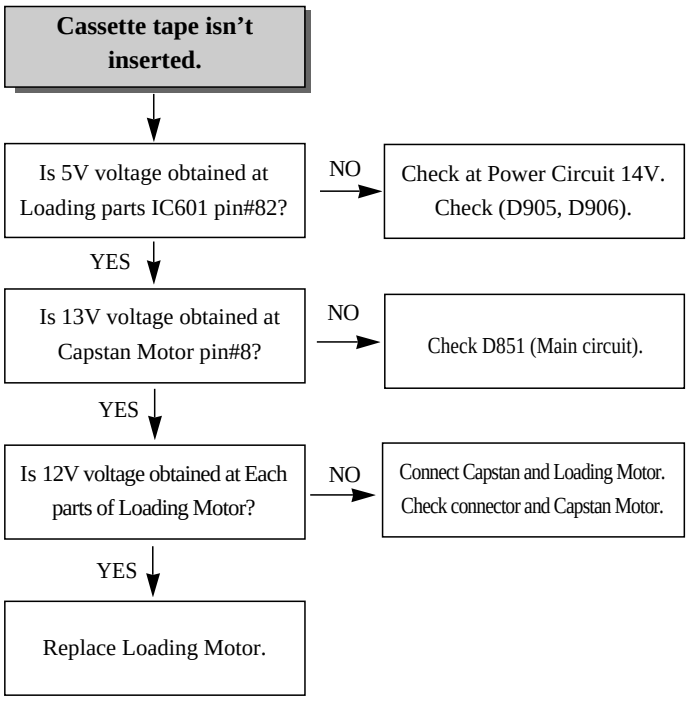
C-2. Bad playback quality (2)



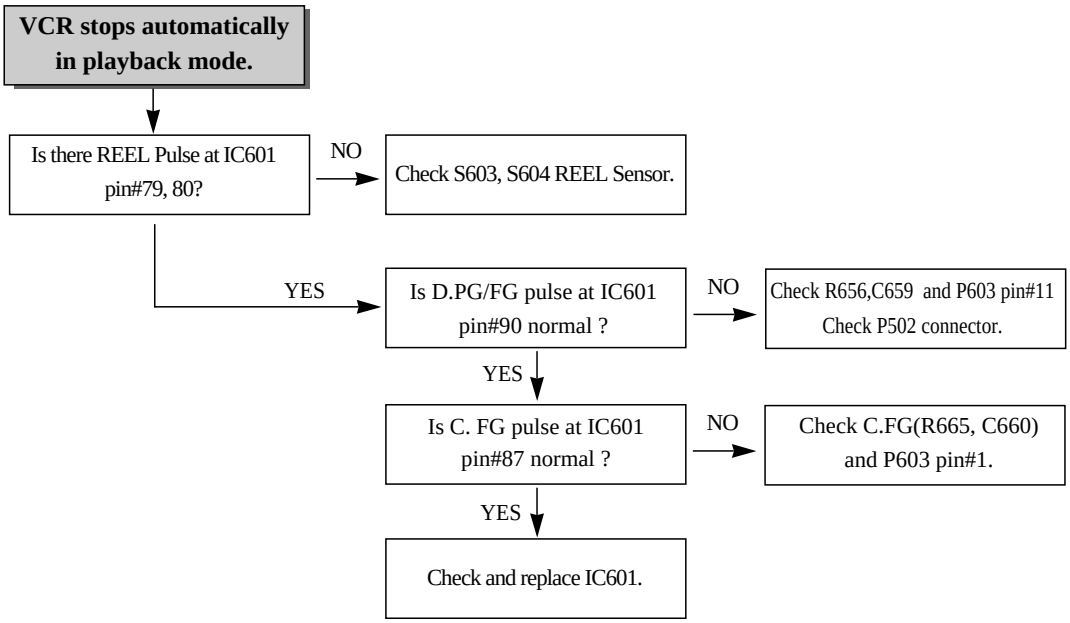
D. No broadcasting signal received



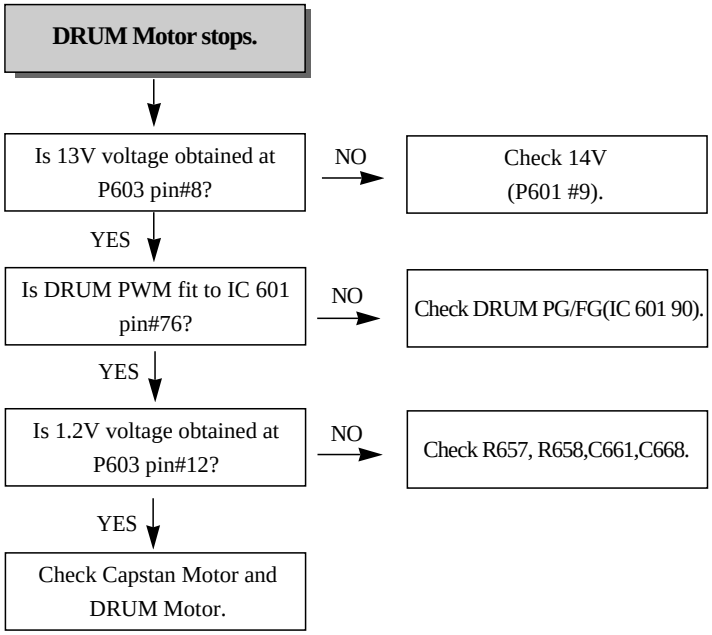
E. No CASSETTE Loading


Cassette tape isn't inserted.
Is 5V voltage obtained at Loading parts IC601 pin#82?
NO
Check at Power Circuit 14V. Check (D905, D906).
YES
Is 13V voltage obtained at Capstan Motor pin#8?
NO
Check D851 (Main circuit).
YES
Is 12V voltage obtained at Each parts of Loading Motor?
NO
Connect Capstan and Loading Motor. Check connector and Capstan Motor.
YES
Replace Loading Motor.

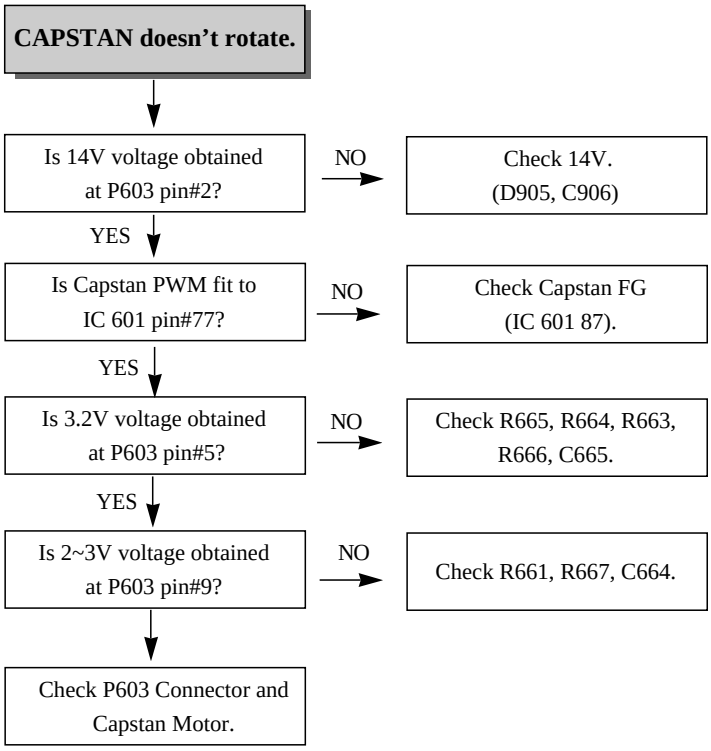
F. AUTO STOP in Playback mode


VCR stops automatically in playback mode.
Is there REEL Pulse at IC601 pin#79, 80?
NO
Check S603, S604 REEL Sensor.
YES
Is D.PG/FG pulse at IC601 pin#90 normal ?
NO
Check R656,C659 and P603 pin#11 Check P502 connector.
YES
Is C. FG pulse at IC601 pin#87 normal ?
NO
Check C.FG(R665, C660) and P603 pin#1.
YES
Check and replace IC601.

G. DRUM Motor stops

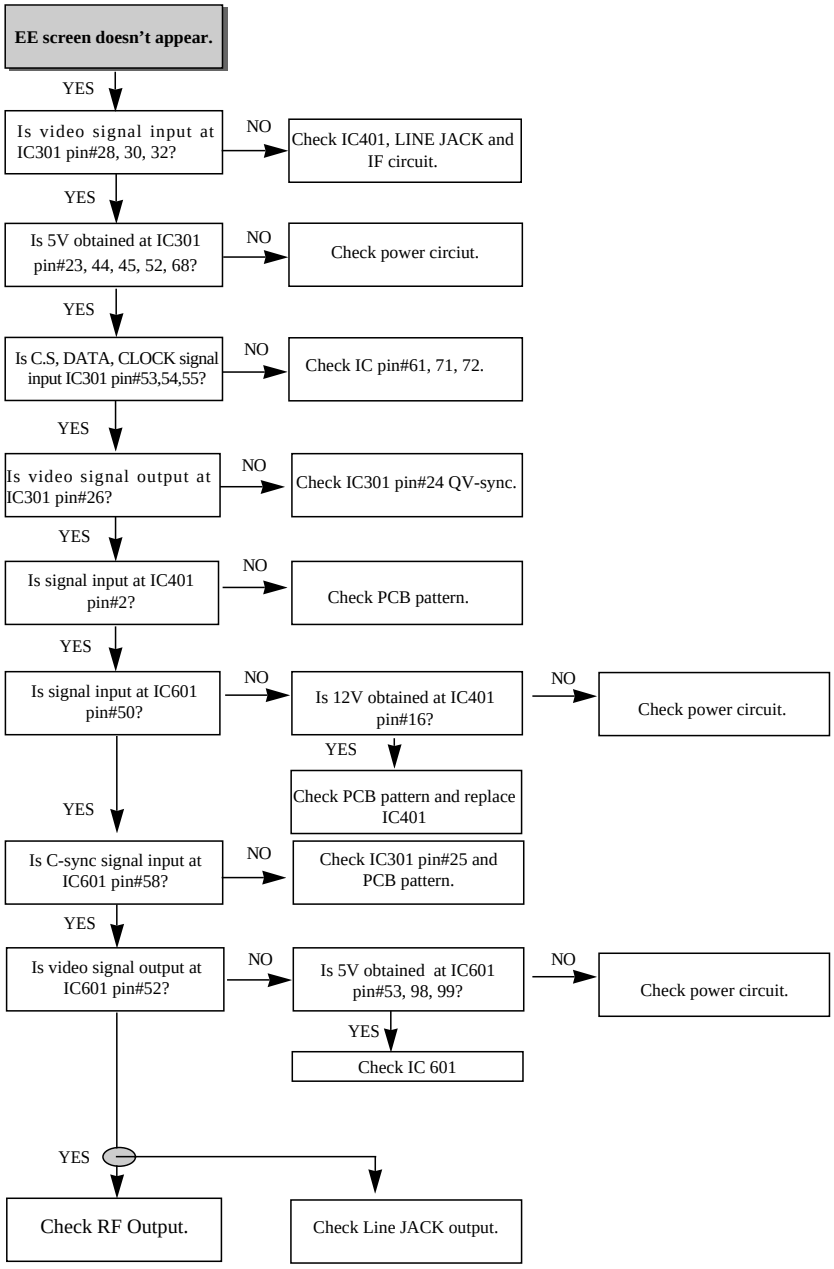


H. CAPSTAN doesn't rotate

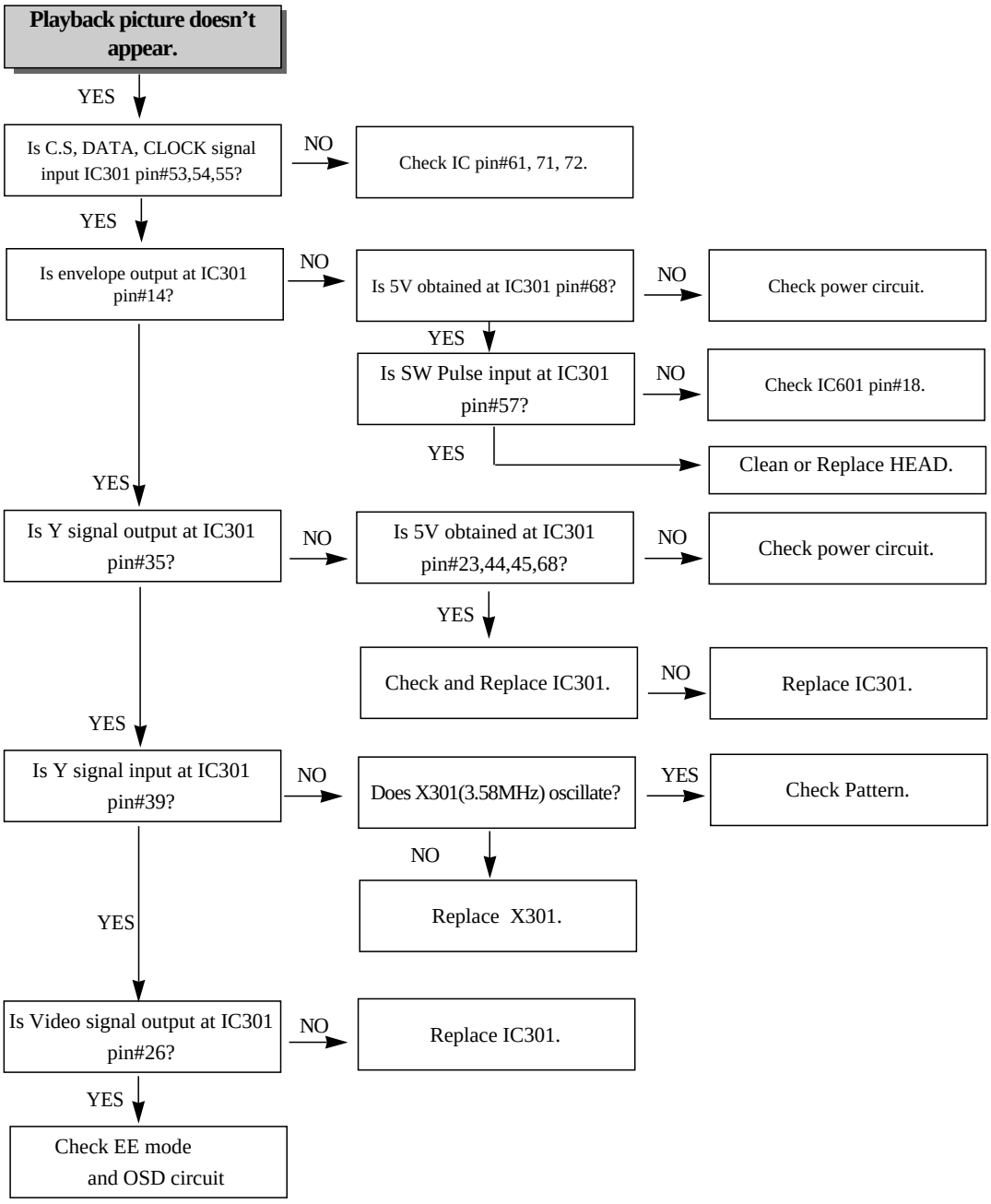


VIDEO CIRCUIT

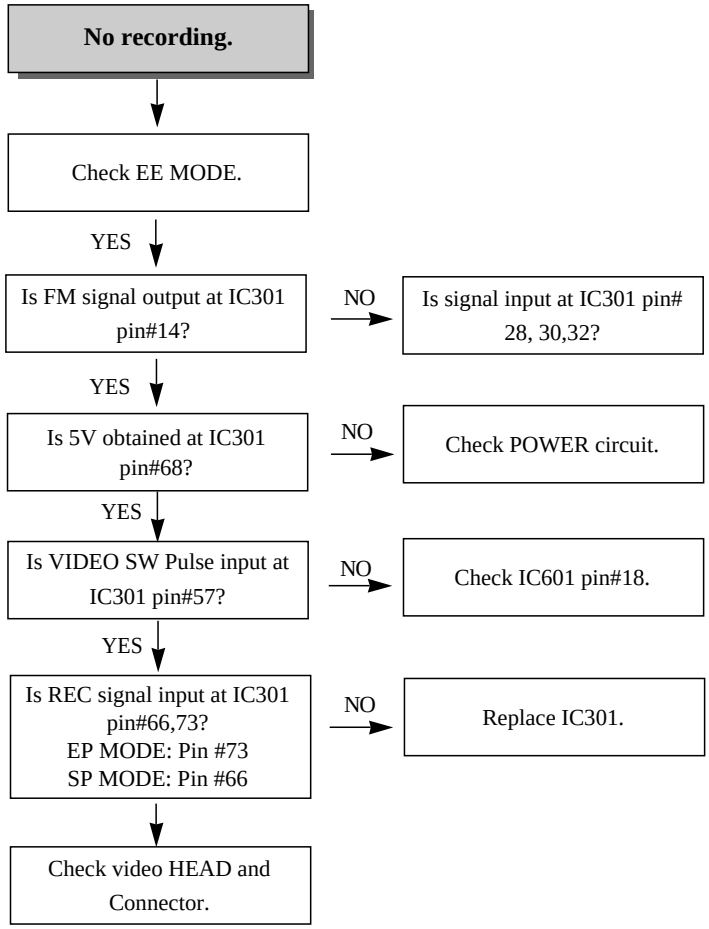
A. EE screen doesn't appear



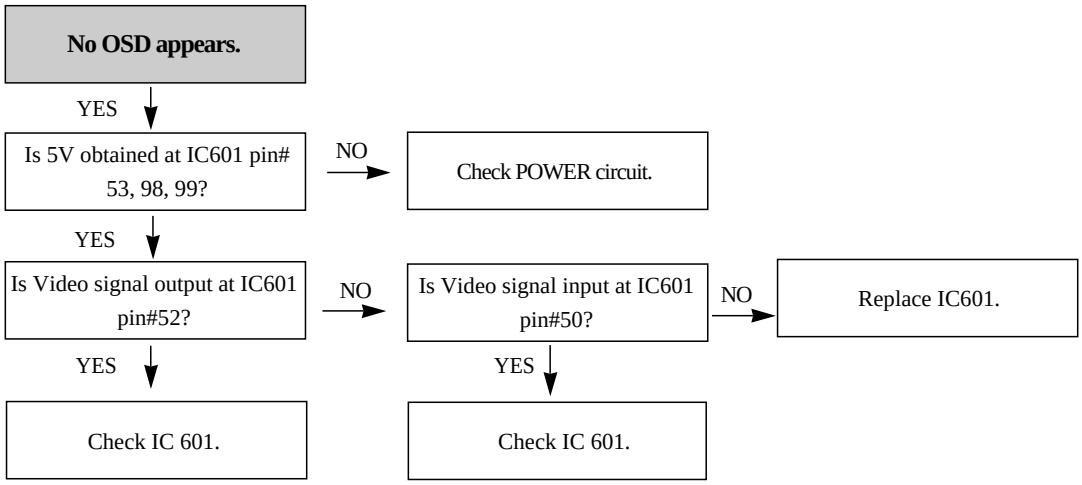
B. Playback picture doesn't appear



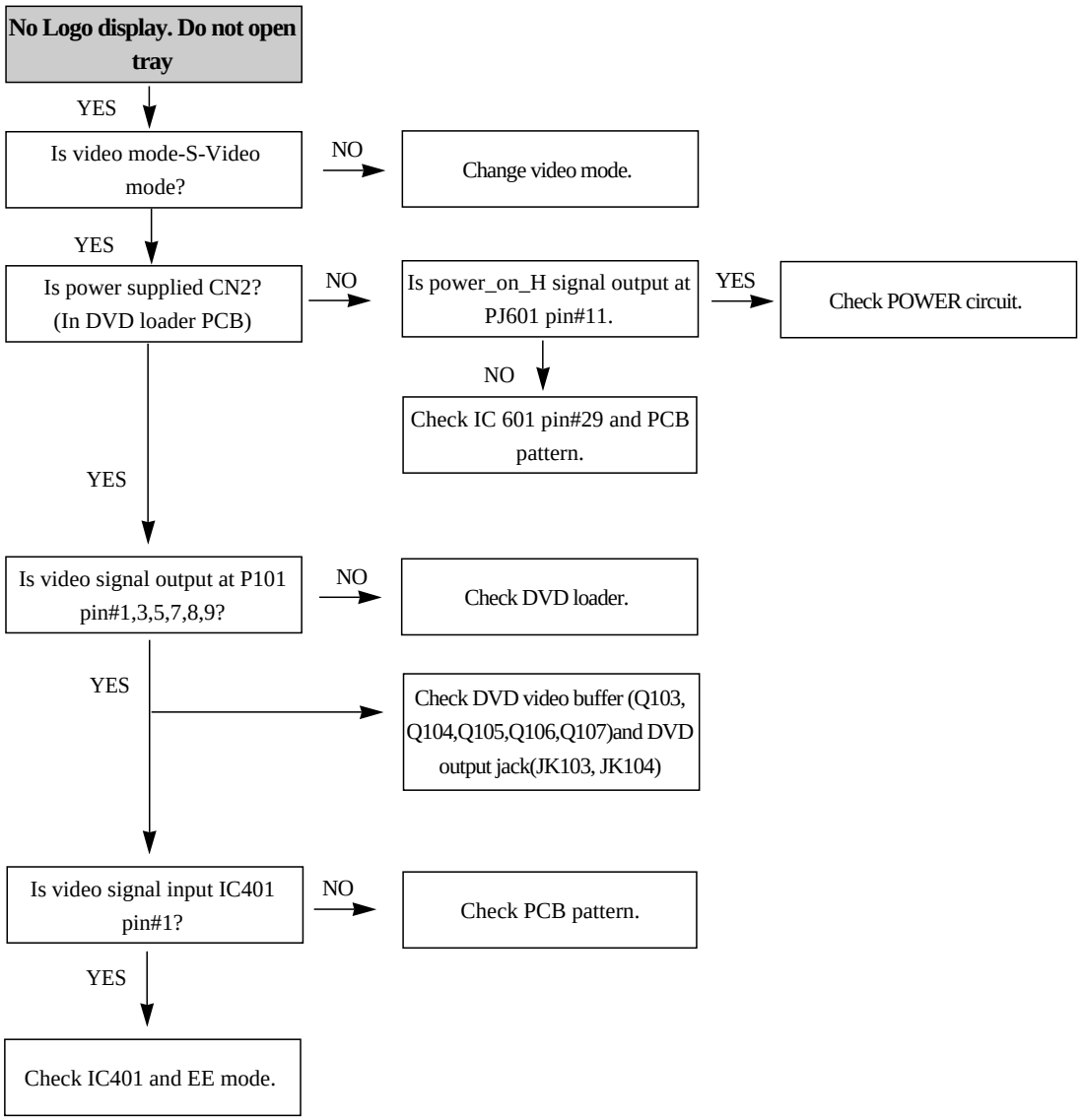
C. No recording



D. No OSD(On Screen Display) appears. (VCR)



E. No Logo Display or Do not open tray.(DVD)

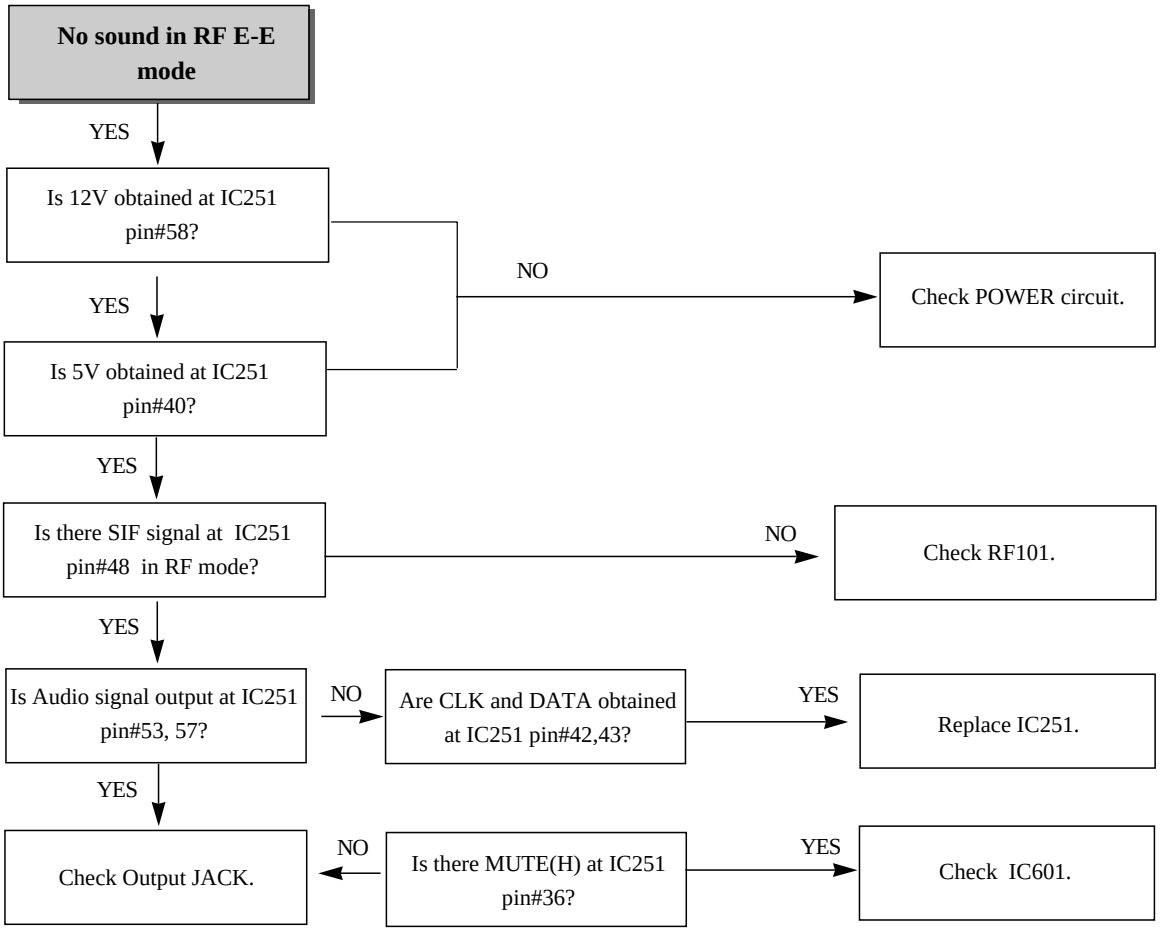


AUDIO CIRCUIT

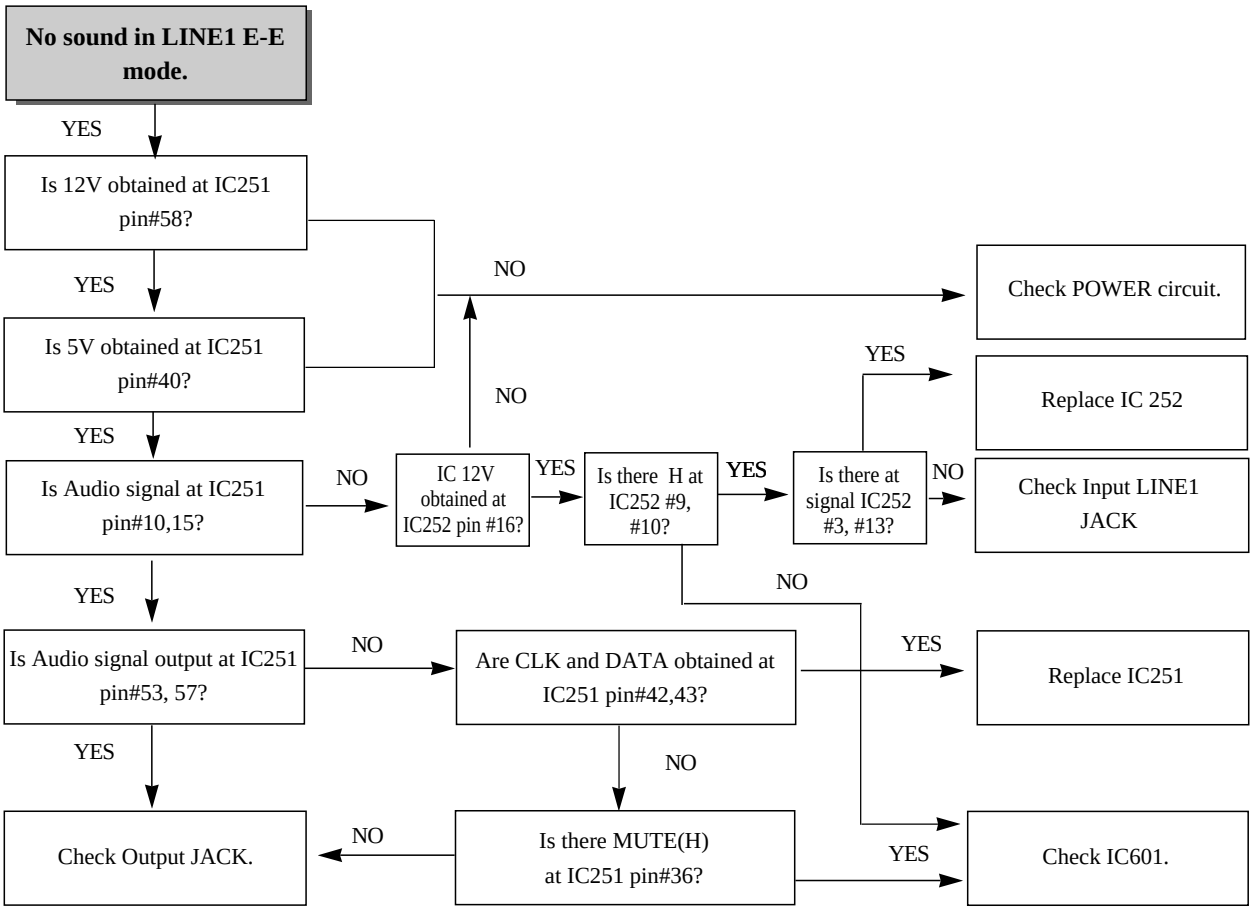
1. RCA

A. No sound in E-E mode

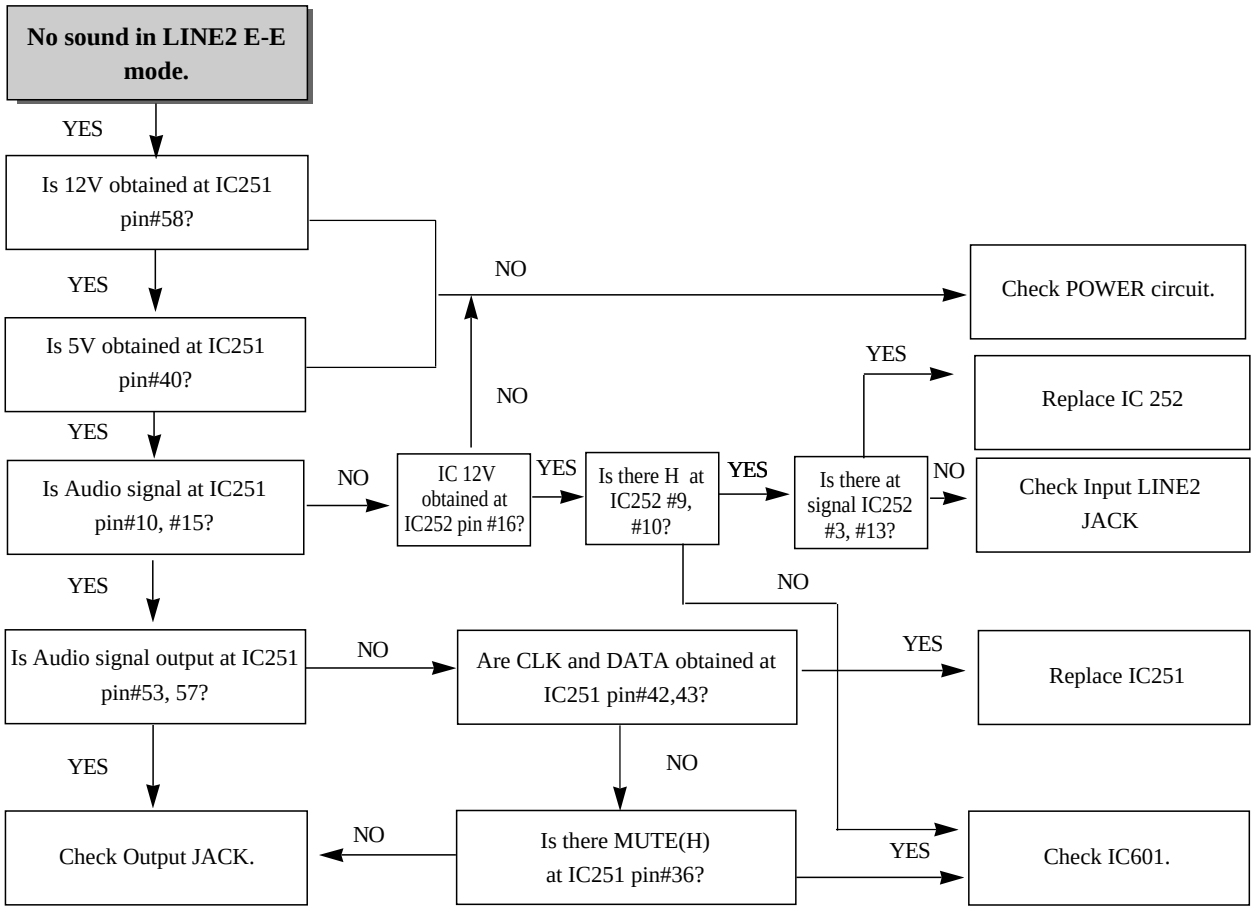
A-1. TV E-E



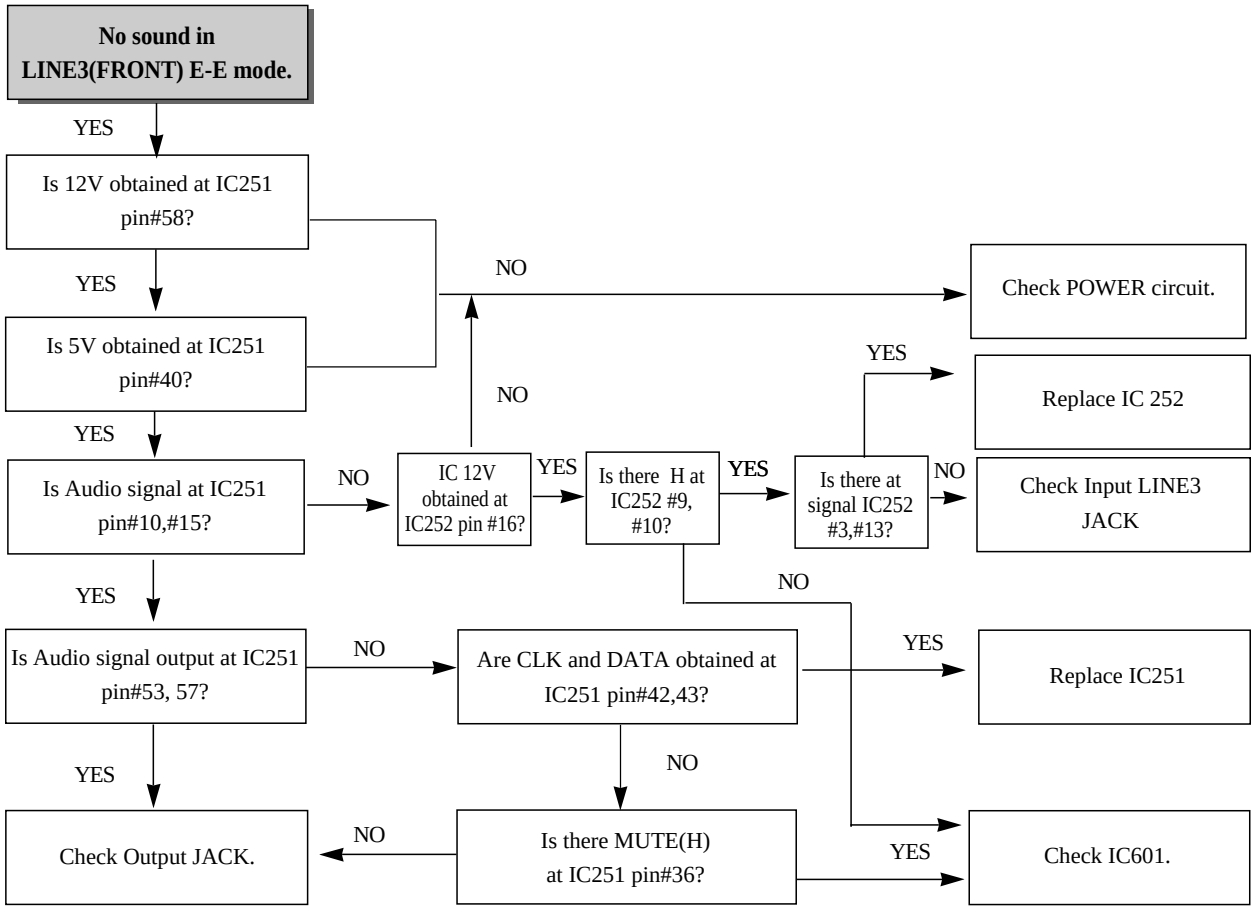
A-2. LINE1 E-E


No sound in LINE1 E-E mode.
YES
Is 12V obtained at IC251 pin#58?
NO
Check POWER circuit.
YES
Is 5V obtained at IC251 pin#40?
NO
YES
Replace IC 252
YES
Is Audio signal at IC251 pin#10,15?
NO
IC 12V obtained at IC252 pin #16?
YES
Is there H at IC252 #9, #10?
YES
Is there at signal IC252 #3, #13?
NO
Check Input LINE1 JACK
NO
YES
Is Audio signal output at IC251 pin#53, 57?
NO
Are CLK and DATA obtained at IC251 pin#42,43?
YES
Replace IC251
YES
NO
Check Output JACK.
NO
Is there MUTE(H) at IC251 pin#36?
YES
Check IC601.

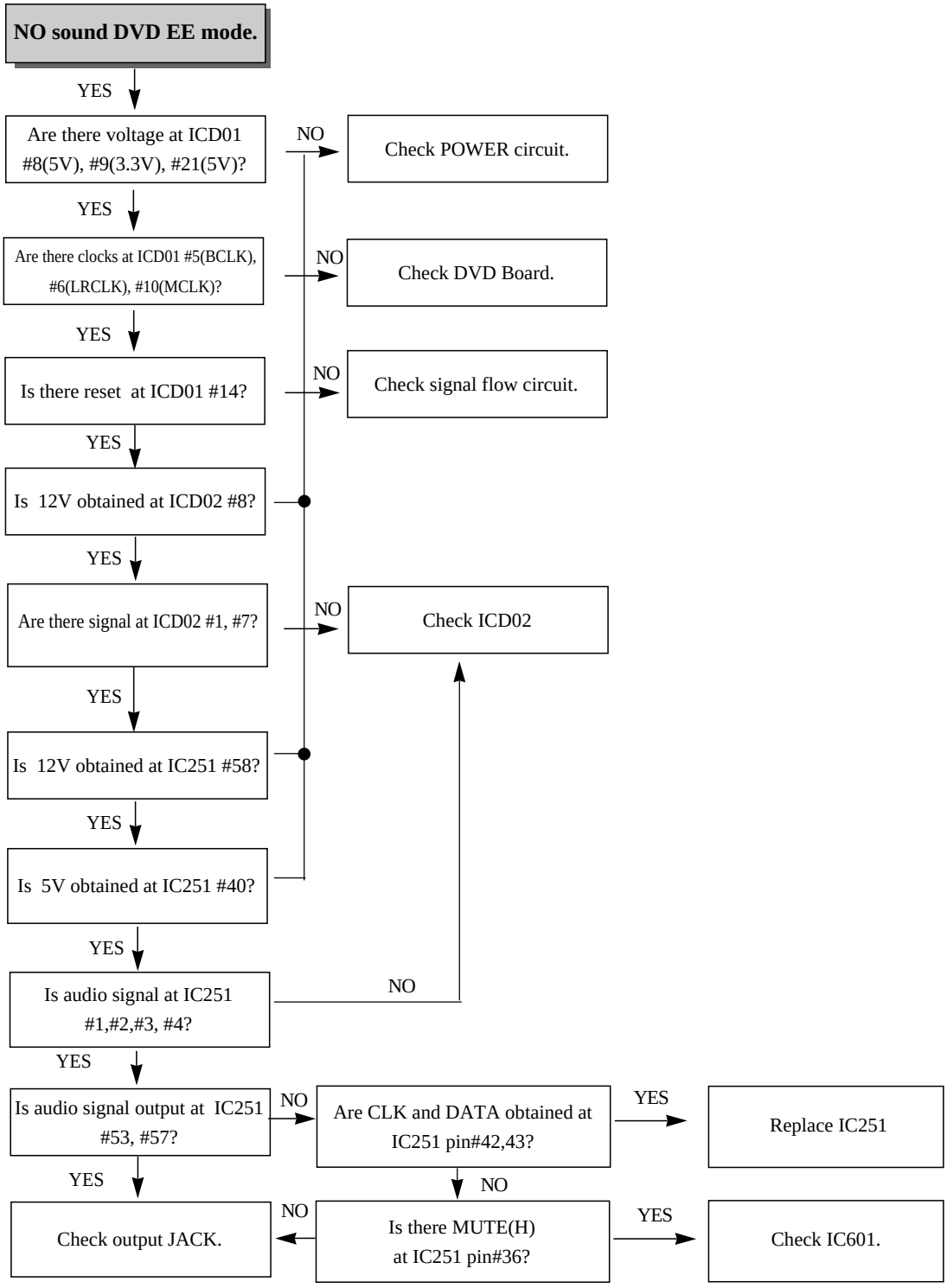
A-3. LINE2 E-E


No sound in LINE2 E-E mode.
YES
Is 12V obtained at IC251 pin#58?
NO
Check POWER circuit.
YES
Is 5V obtained at IC251 pin#40?
NO
YES
Replace IC 252
YES
Is Audio signal at IC251 pin#10, #15?
NO
IC 12V obtained at IC252 pin #16?
YES
Is there H at IC252 #9, #10?
YES
Is there at signal IC252 #3, #13?
NO
Check Input LINE2 JACK
NO
YES
Is Audio signal output at IC251 pin#53, 57?
NO
Are CLK and DATA obtained at IC251 pin#42,43?
YES
Replace IC251
YES
NO
Check Output JACK.
NO
Is there MUTE(H) at IC251 pin#36?
YES
Check IC601.

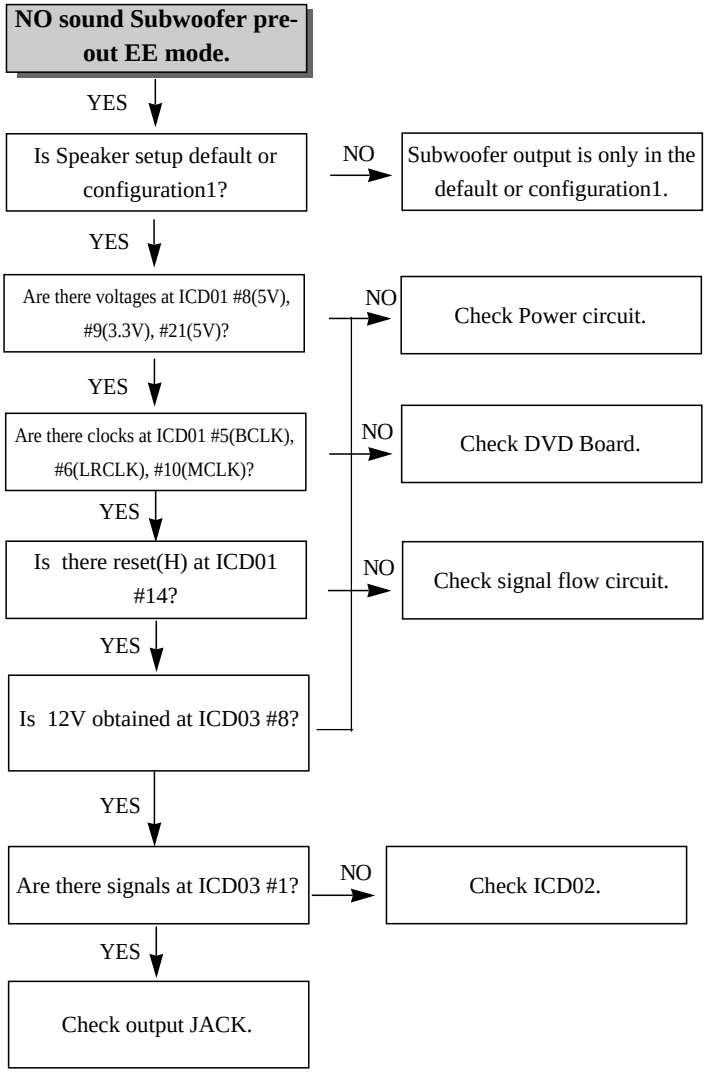
A-4. LINE3 (FRONT) E-E



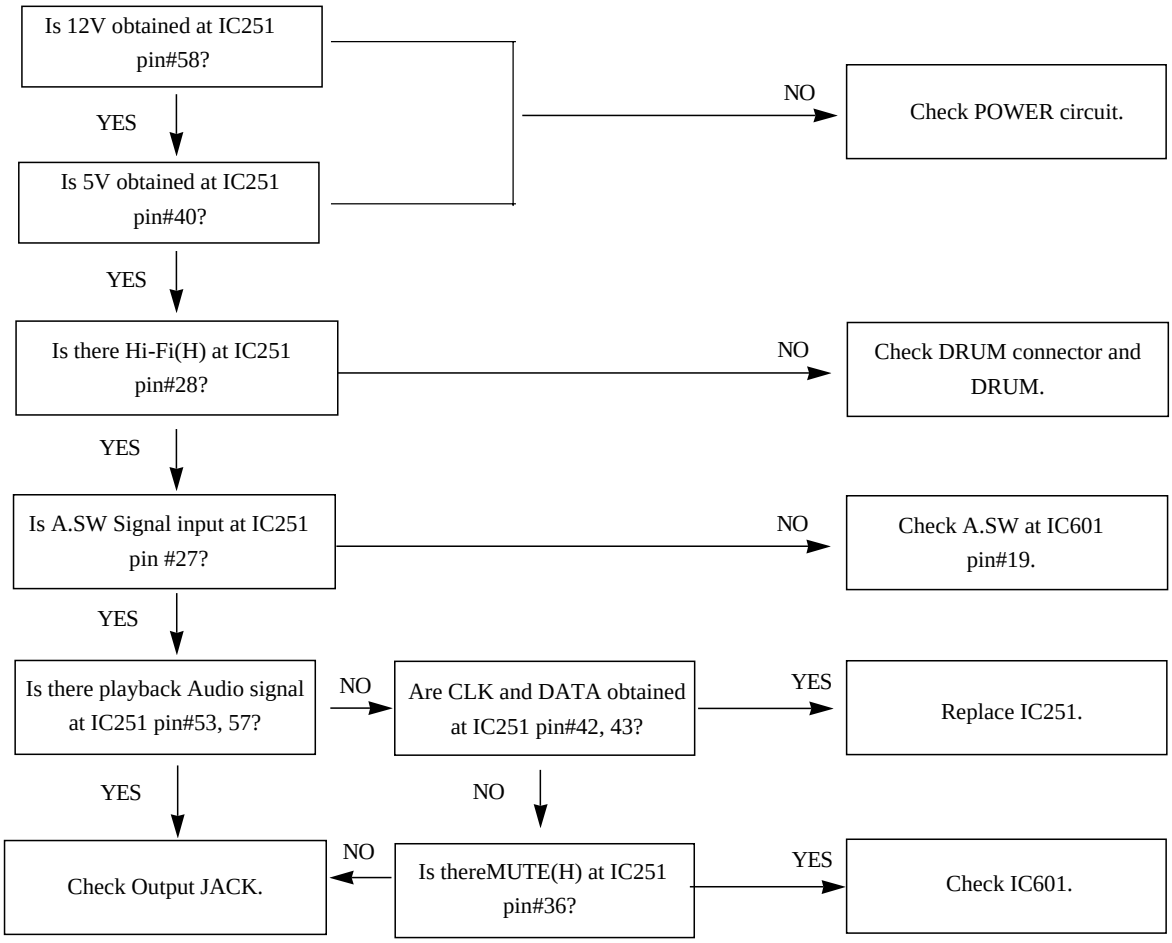
A-5. DVD E-E


NO sound DVD EE mode.
YES
Are there voltage at ICD01 #8(5V), #9(3.3V), #21(5V)?
NO
Check POWER circuit.
YES
Are there clocks at ICD01 #5(BCLK), #6(LRCLK), #10(MCLK)?
NO
Check DVD Board.
YES
Is there reset at ICD01 #14?
NO
Check signal flow circuit.
YES
Is 12V obtained at ICD02 #8?
YES
Are there signal at ICD02 #1, #7?
NO
Check ICD02
YES
Is 12V obtained at IC251 #58?
YES
Is 5V obtained at IC251 #40?
YES
Is audio signal at IC251 #1,#2,#3, #4?
NO
YES
Is audio signal output at IC251 #53, #57?
NO
Are CLK and DATA obtained at IC251 pin#42,43?
YES
Replace IC251
NO
YES
Check output JACK.
NO
Is there MUTE(H) at IC251 pin#36?
YES
Check IC601.

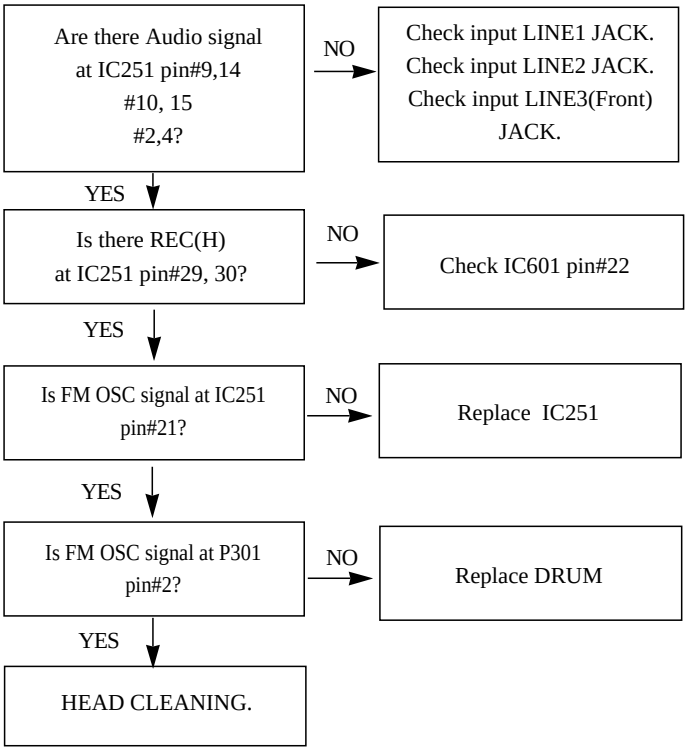
A-6. SUBWOOFER PRE-OUT E-E



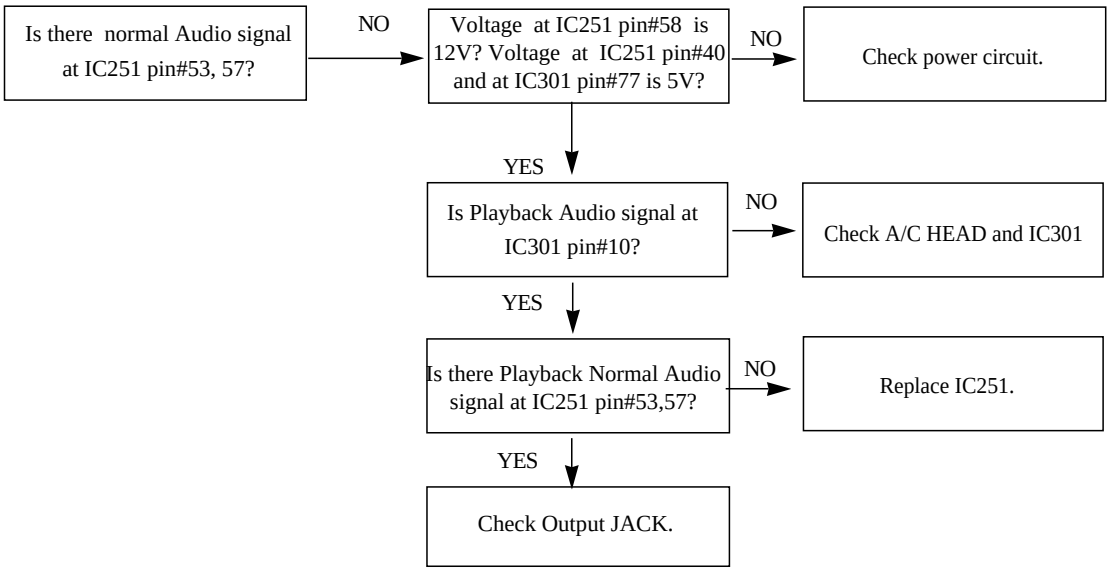
B. No Hi-Fi playback audio (PLAY MODE)



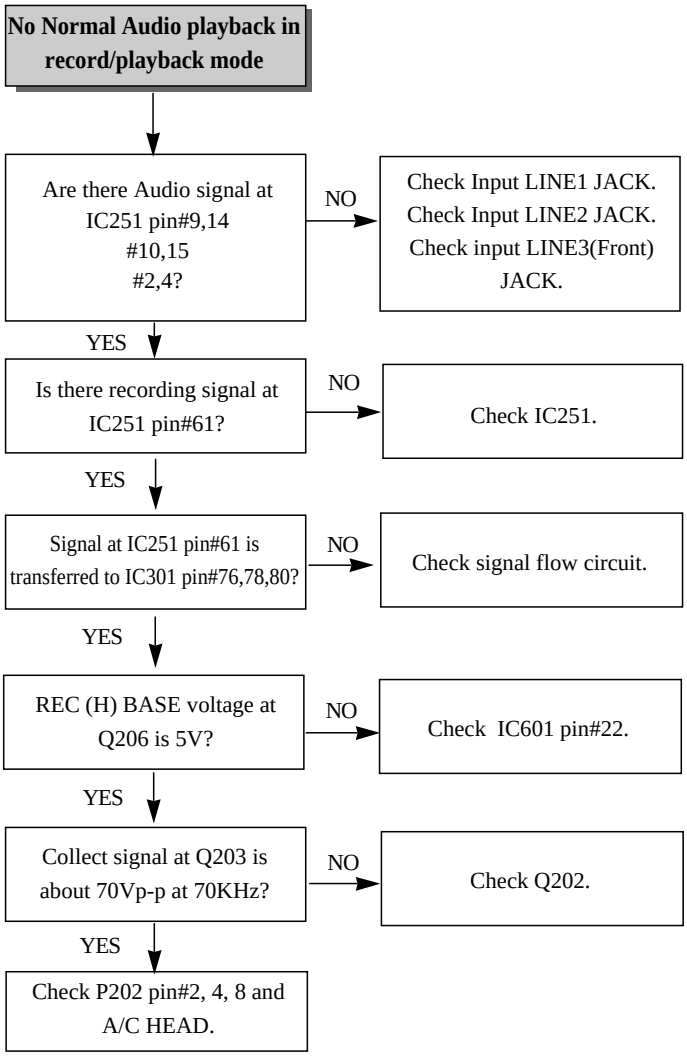
c. No Hi-Fi playback in record/playback mode(REC MODE)



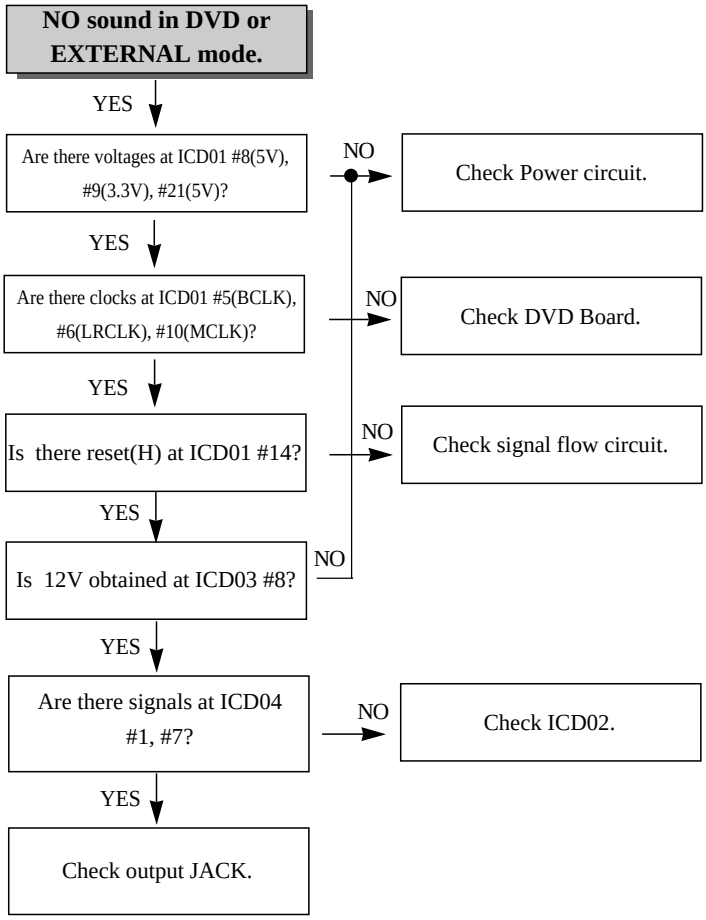
D. No NORMAL AUDIO playback (PLAY MODE)

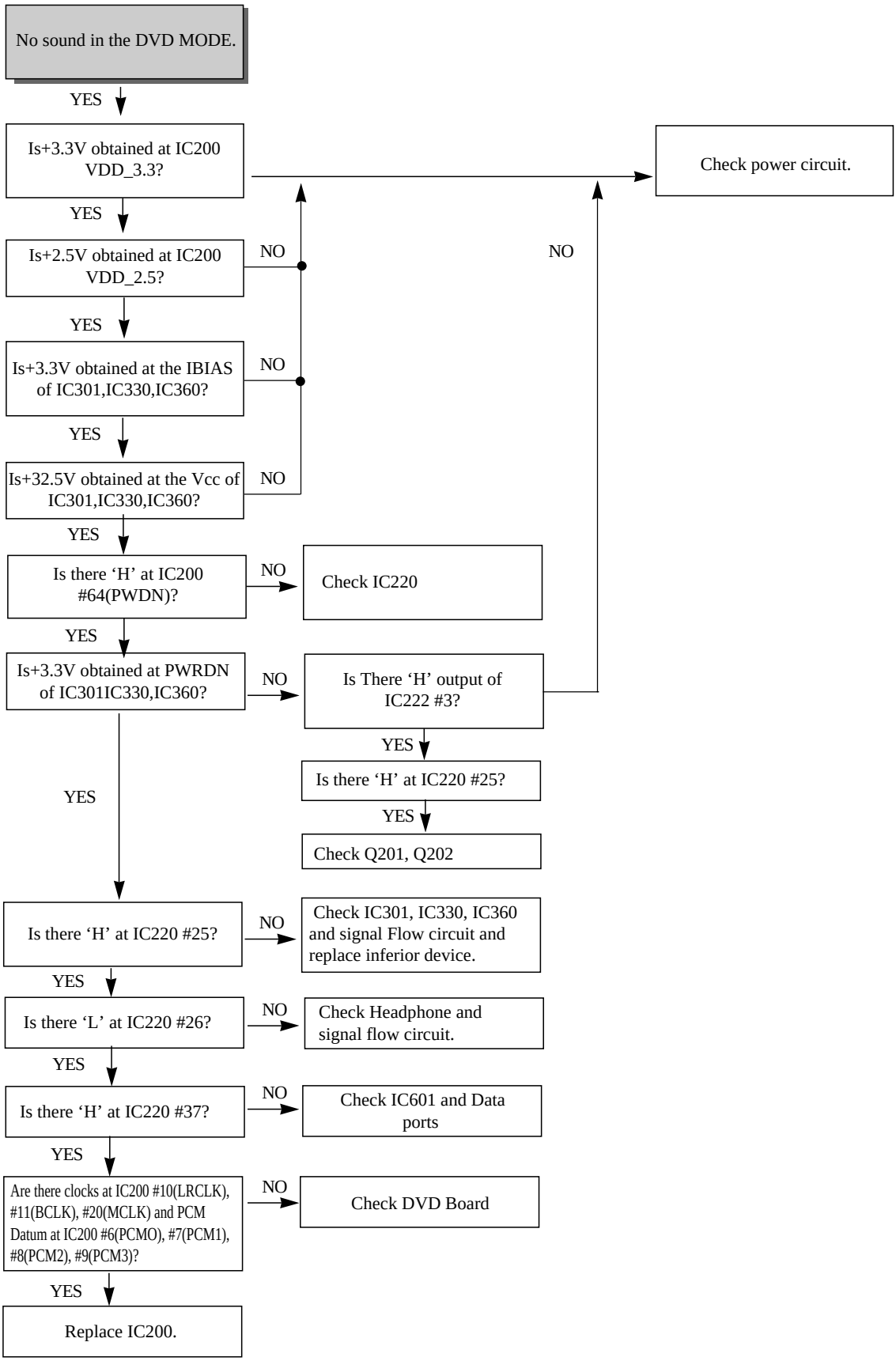

Is there normal Audio signal at IC251 pin#53, 57?
NO
Voltage at IC251 pin#58 is 12V? Voltage at IC251 pin#40 and at IC301 pin#77 is 5V?
NO
Check power circuit.
YES
Is Playback Audio signal at IC301 pin#10?
NO
Check A/C HEAD and IC301
YES
Is there Playback Normal Audio signal at IC251 pin#53,57?
NO
Replace IC251.
YES
Check Output JACK.

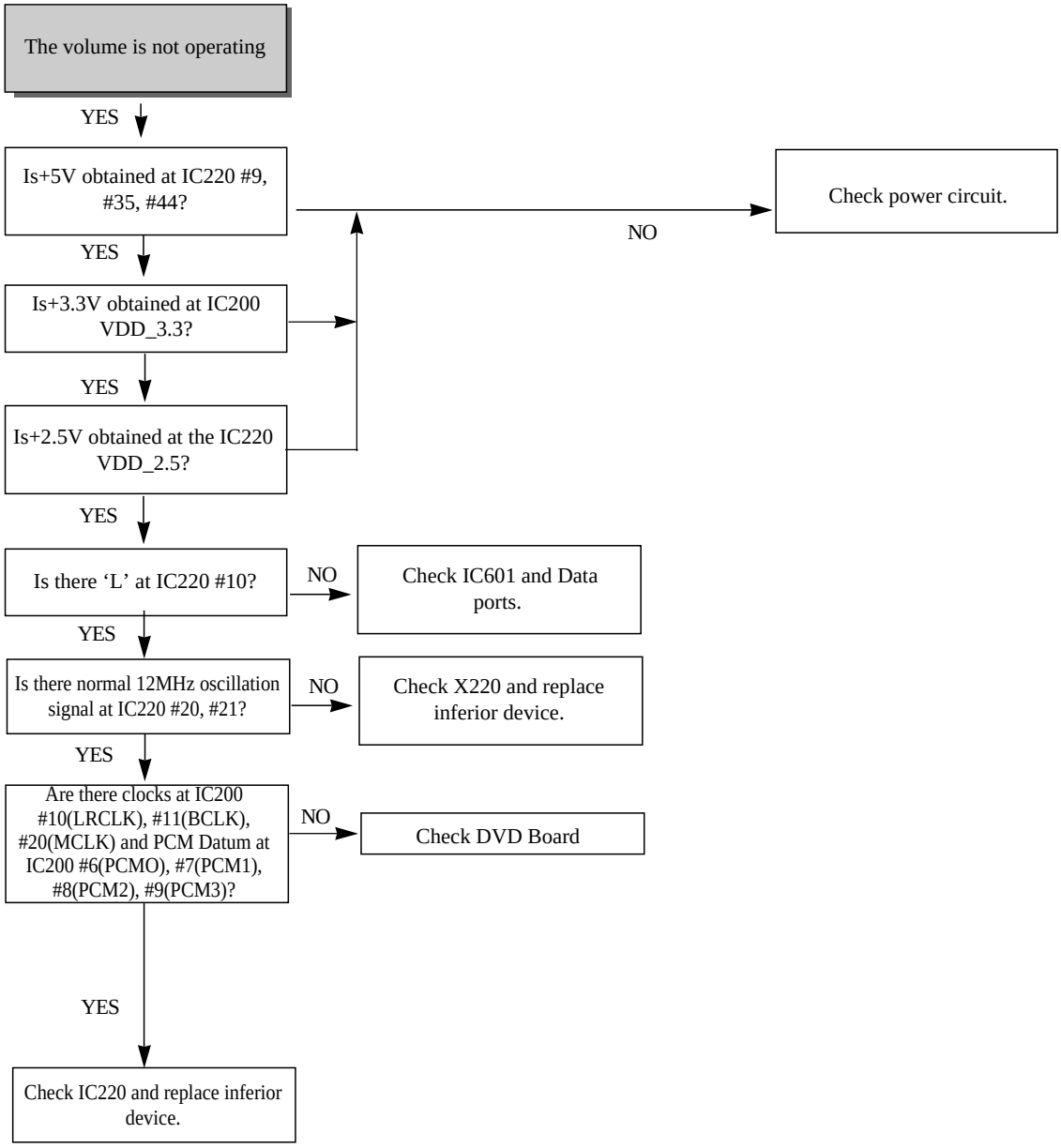
E. No NORMAL AUDIO playback in record/playback mode(Check in REC mode)

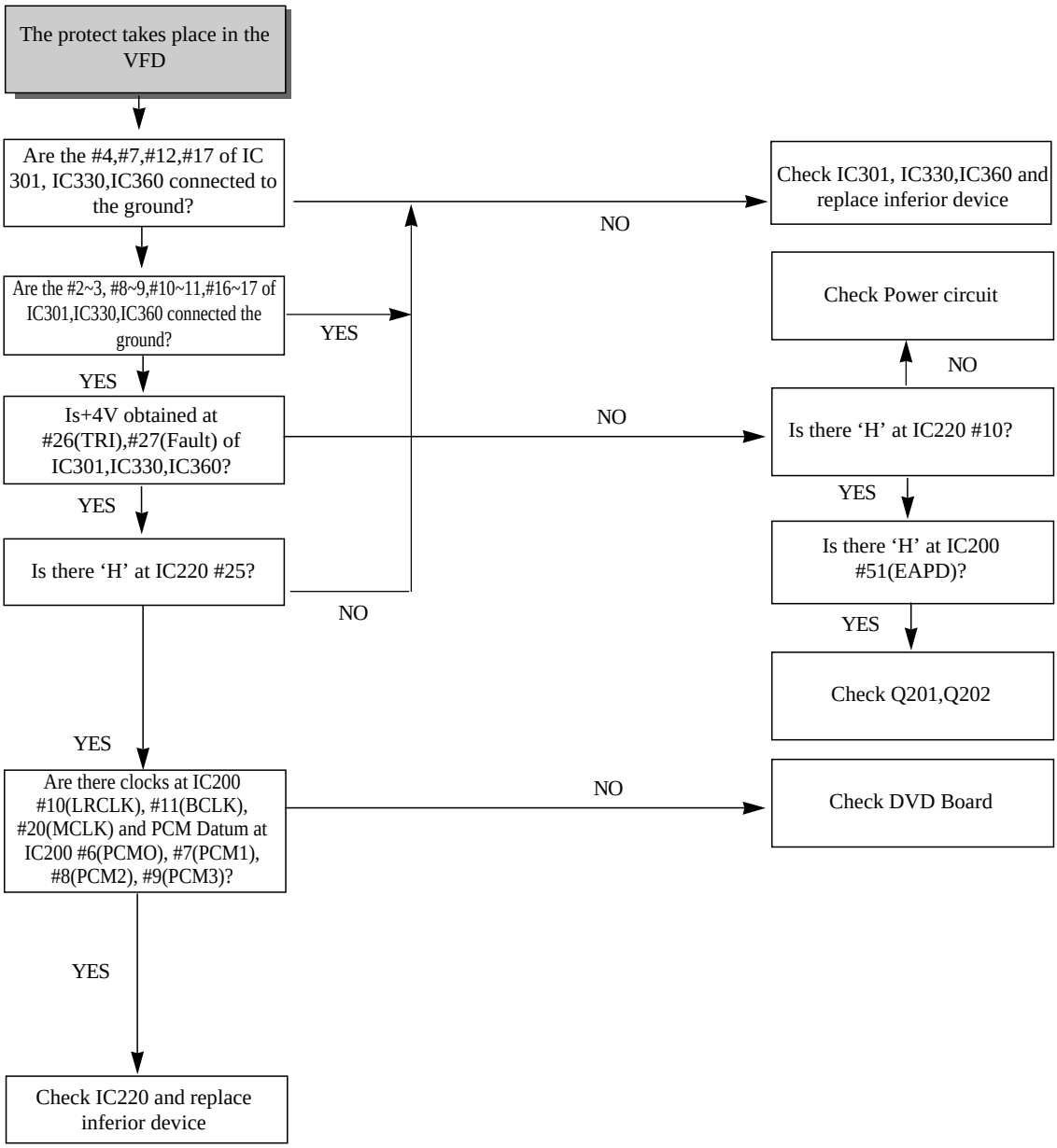

No Normal Audio playback in record/playback mode
Are there Audio signal at IC251 pin#9,14 #10,15 #2,4?
NO
Check Input LINE1 JACK. Check Input LINE2 JACK. Check input LINE3(Front) JACK.
YES
Is there recording signal at IC251 pin#61?
NO
Check IC251.
YES
Signal at IC251 pin#61 is transferred to IC301 pin#76,78,80?
NO
Check signal flow circuit.
YES
REC (H) BASE voltage at Q206 is 5V?
NO
Check IC601 pin#22.
YES
Collect signal at Q203 is about 70Vp-p at 70KHz?
NO
Check Q202.
YES
Check P202 pin#2, 4, 8 and A/C HEAD.

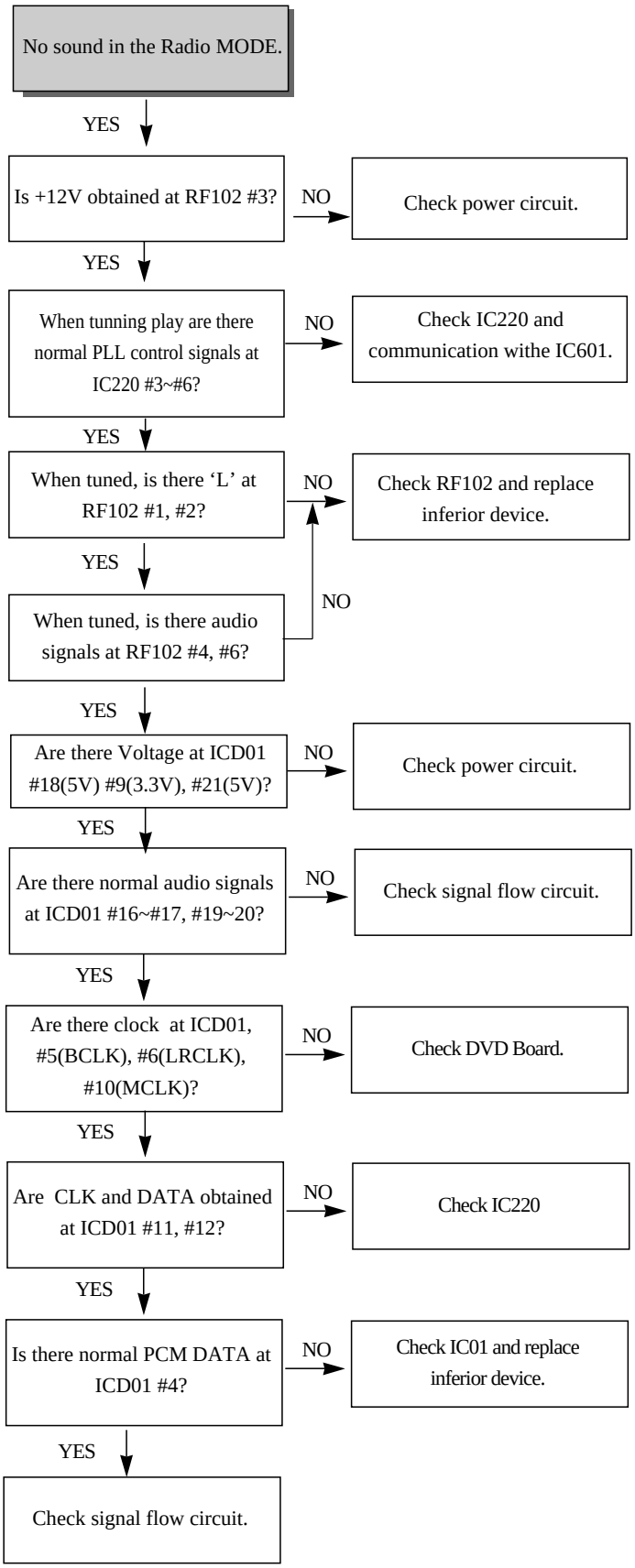
2. HEADPHONE

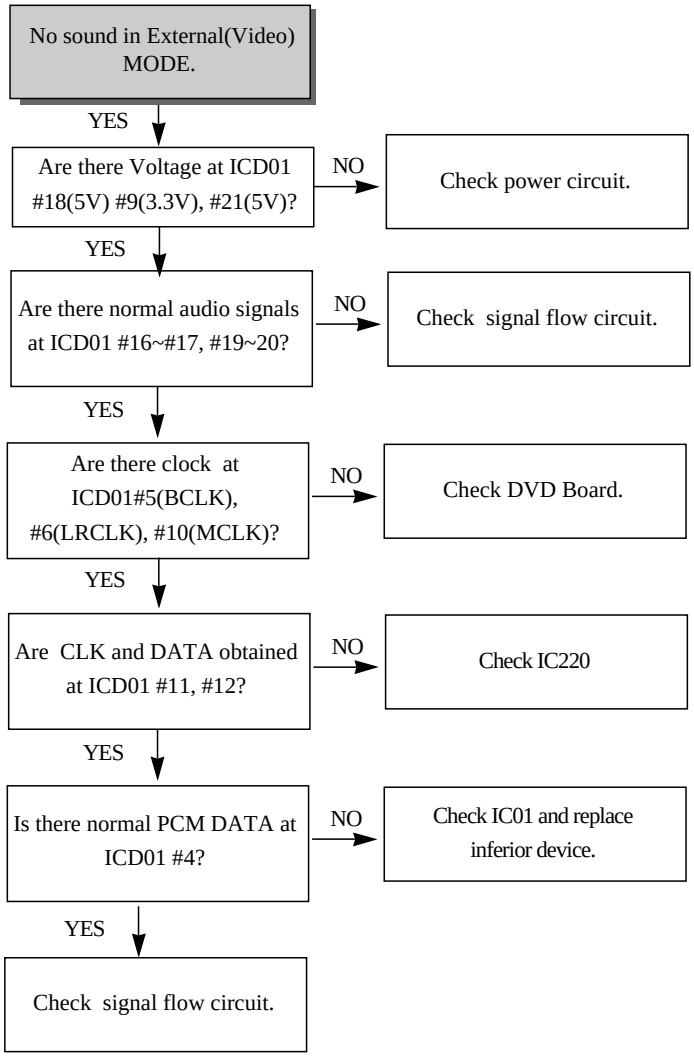

NO sound in DVD or EXTERNAL mode.
YES
Are there voltages at ICD01 #8(5V), #9(3.3V), #21(5V)?
NO
Check Power circuit.
YES
Are there clocks at ICD01 #5(BCLK), #6(LRCLK), #10(MCLK)?
NO
Check DVD Board.
YES
Is there reset(H) at ICD01 #14?
NO
Check signal flow circuit.
YES
Is 12V obtained at ICD03 #8?
NO
YES
Are there signals at ICD04 #1, #7?
NO
Check ICD02.
YES
Check output JACK.


No sound in the DVD MODE.
YES
Is+3.3V obtained at IC200 VDD_3.3?
NO
Check power circuit.
YES
Is+2.5V obtained at IC200 VDD_2.5?
NO
YES
Is+3.3V obtained at the IBIAS of IC301,IC330,IC360?
NO
YES
Is+32.5V obtained at the Vcc of IC301,IC330,IC360?
NO
YES
Is there 'H' at IC200 #64(PWDN)?
NO
Check IC220
YES
Is+3.3V obtained at PWRDN of IC301IC330,IC360?
NO
Is There 'H' output of IC222 #3?
YES
Is there 'H' at IC220 #25?
YES
Check Q201, Q202
YES
Is there 'H' at IC220 #25?
NO
Check IC301, IC330, IC360 and signal Flow circuit and replace inferior device.
YES
Is there 'L' at IC220 #26?
NO
Check Headphone and signal flow circuit.
YES
Is there 'H' at IC220 #37?
NO
Check IC601 and Data ports
YES
Are there clocks at IC200 #10(LRCLK), #11(BCLK), #20(MCLK) and PCM Datum at IC200 #6(PCMO), #7(PCM1), #8(PCM2), #9(PCM3)?
NO
Check DVD Board
YES
Replace IC200.


The volume is not operating
YES
Is+5V obtained at IC220 #9, #35, #44?
NO
Check power circuit.
YES
Is+3.3V obtained at IC200 VDD_3.3?
YES
Is+2.5V obtained at the IC220 VDD_2.5?
YES
Is there 'L' at IC220 #10?
NO
Check IC601 and Data ports.
YES
Is there normal 12MHz oscillation signal at IC220 #20, #21?
NO
Check X220 and replace inferior device.
YES
Are there clocks at IC200 #10(LRCLK), #11(BCLK), #20(MCLK) and PCM Datum at IC200 #6(PCMO), #7(PCM1), #8(PCM2), #9(PCM3)?
NO
Check DVD Board
YES
Check IC220 and replace inferior device.

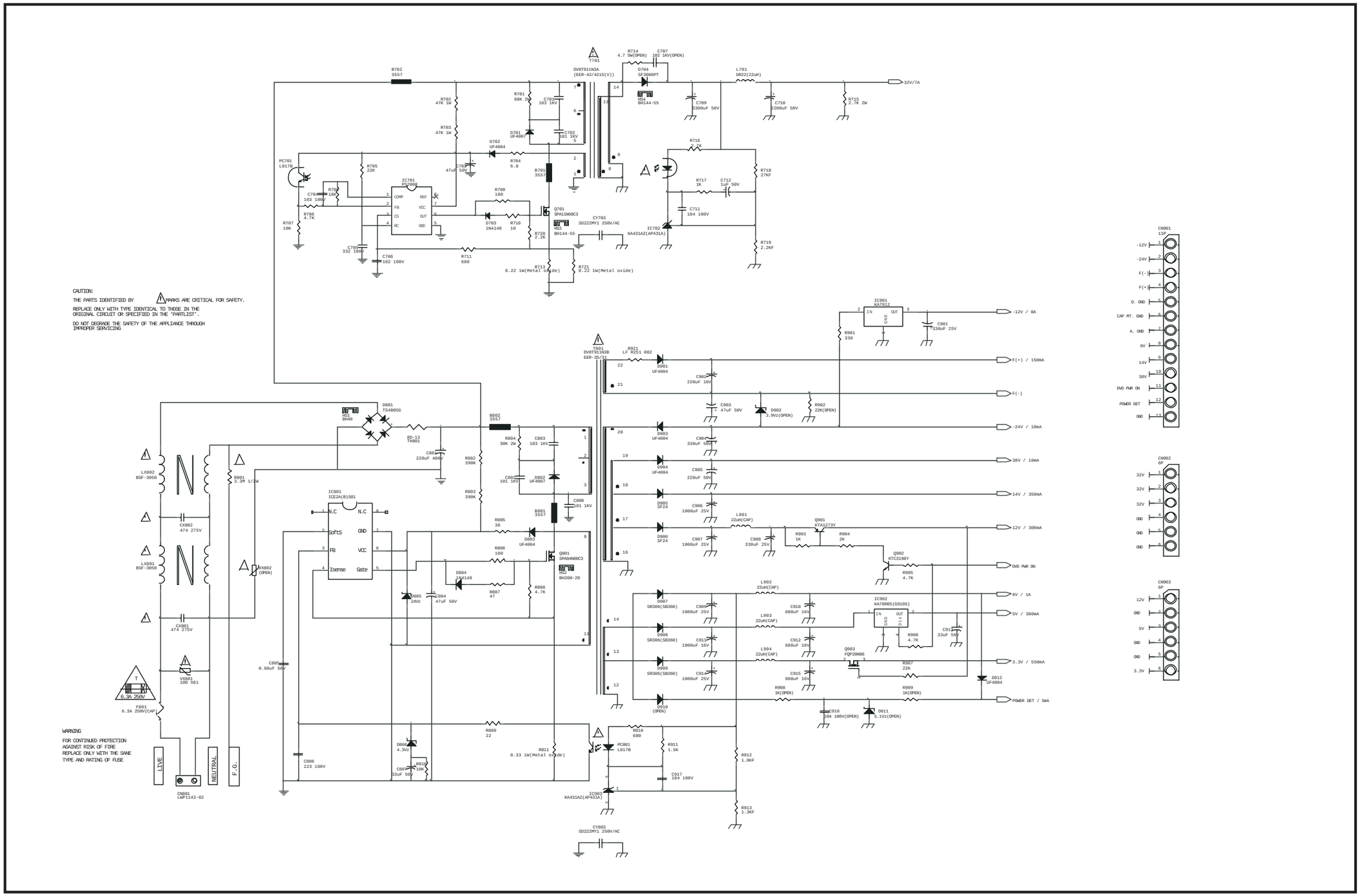

The protect takes place in the VFD
Are the #4,#7,#12,#17 of IC 301, IC330,IC360 connected to the ground?
NO
Check IC301, IC330,IC360 and replace inferior device
Are the #2~3, #8~9,#10~11,#16~17 of IC301,IC330,IC360 connected the ground?
YES
Check Power circuit
NO
YES
Is+4V obtained at #26(TRI),#27(Fault) of IC301,IC330,IC360?
NO
Is there 'H' at IC220 #10?
YES
YES
Is there 'H' at IC220 #25?
Is there 'H' at IC200 #51(EAPD)?
NO
YES
Check Q201,Q202
YES
Are there clocks at IC200 #10(LRCLK), #11(BCLK), #20(MCLK) and PCM Datum at IC200 #6(PCMO), #7(PCM1), #8(PCM2), #9(PCM3)?
NO
Check DVD Board
YES
Check IC220 and replace inferior device


No sound in the Radio MODE.
YES
Is +12V obtained at RF102 #3?
NO
Check power circuit.
YES
When tunning play are there normal PLL control signals at IC220 #3~#6?
NO
Check IC220 and communication withe IC601.
YES
When tuned, is there 'L' at RF102 #1, #2?
NO
Check RF102 and replace inferior device.
YES
When tuned, is there audio signals at RF102 #4, #6?
NO
YES
Are there Voltage at ICD01 #18(5V) #9(3.3V), #21(5V)?
NO
Check power circuit.
YES
Are there normal audio signals at ICD01 #16~#17, #19~20?
NO
Check signal flow circuit.
YES
Are there clock at ICD01, #5(BCLK), #6(LRCLK), #10(MCLK)?
NO
Check DVD Board.
YES
Are CLK and DATA obtained at ICD01 #11, #12?
NO
Check IC220
YES
Is there normal PCM DATA at ICD01 #4?
NO
Check IC01 and replace inferior device.
YES
Check signal flow circuit.

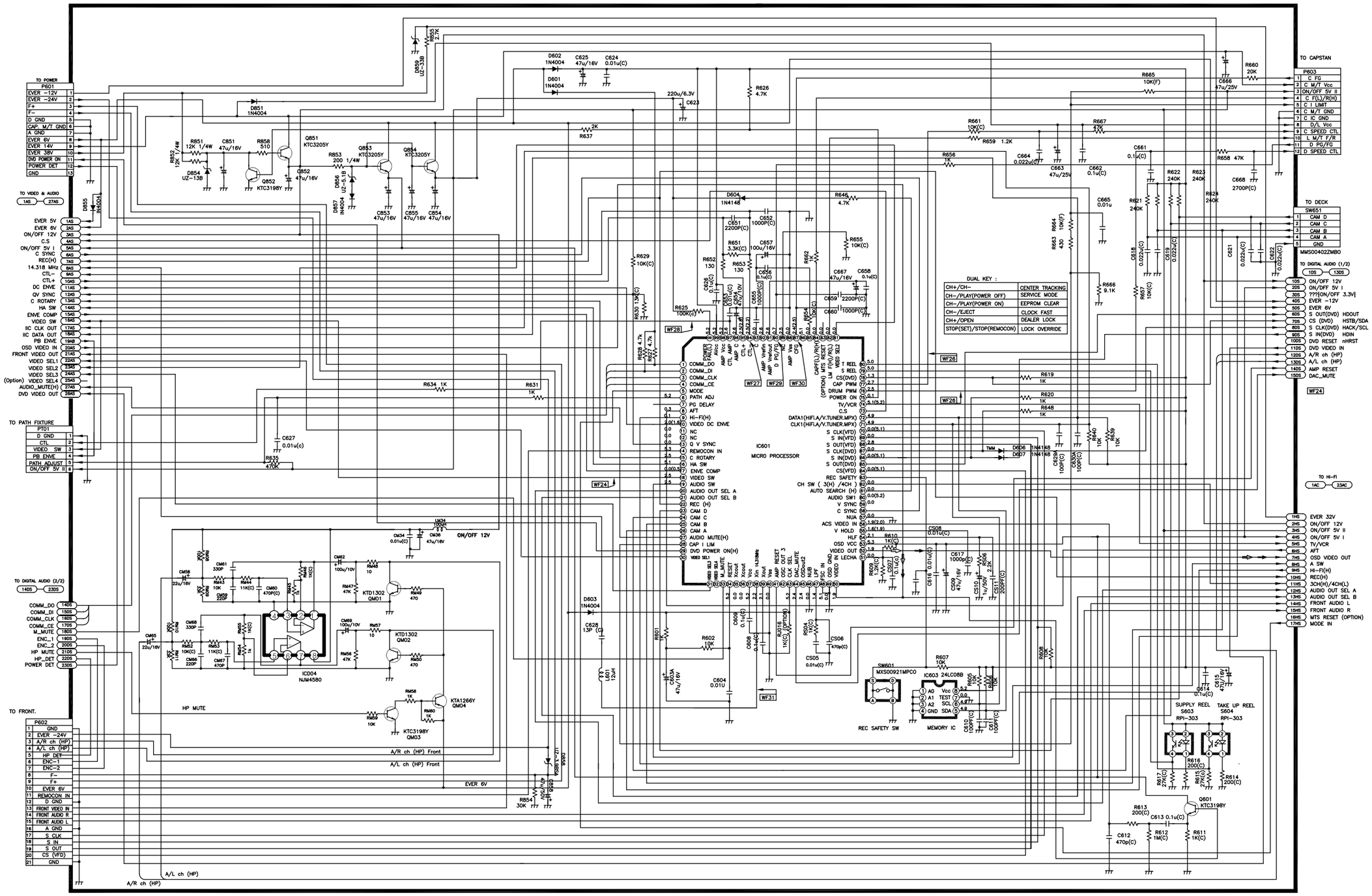

No sound in External(Video) MODE.
YES
Are there Voltage at ICD01 #18(5V) #9(3.3V), #21(5V)?
NO
Check power circuit.
YES
Are there normal audio signals at ICD01 #16~#17, #19~20?
NO
Check signal flow circuit.
YES
Are there clock at ICD01#5(BCLK), #6(LRCLK), #10(MCLK)?
NO
Check DVD Board.
YES
Are CLK and DATA obtained at ICD01 #11, #12?
NO
Check IC220
YES
Is there normal PCM DATA at ICD01 #4?
NO
Check IC01 and replace inferior device.
YES
Check signal flow circuit.

SCHEMATIC DIAGRAM

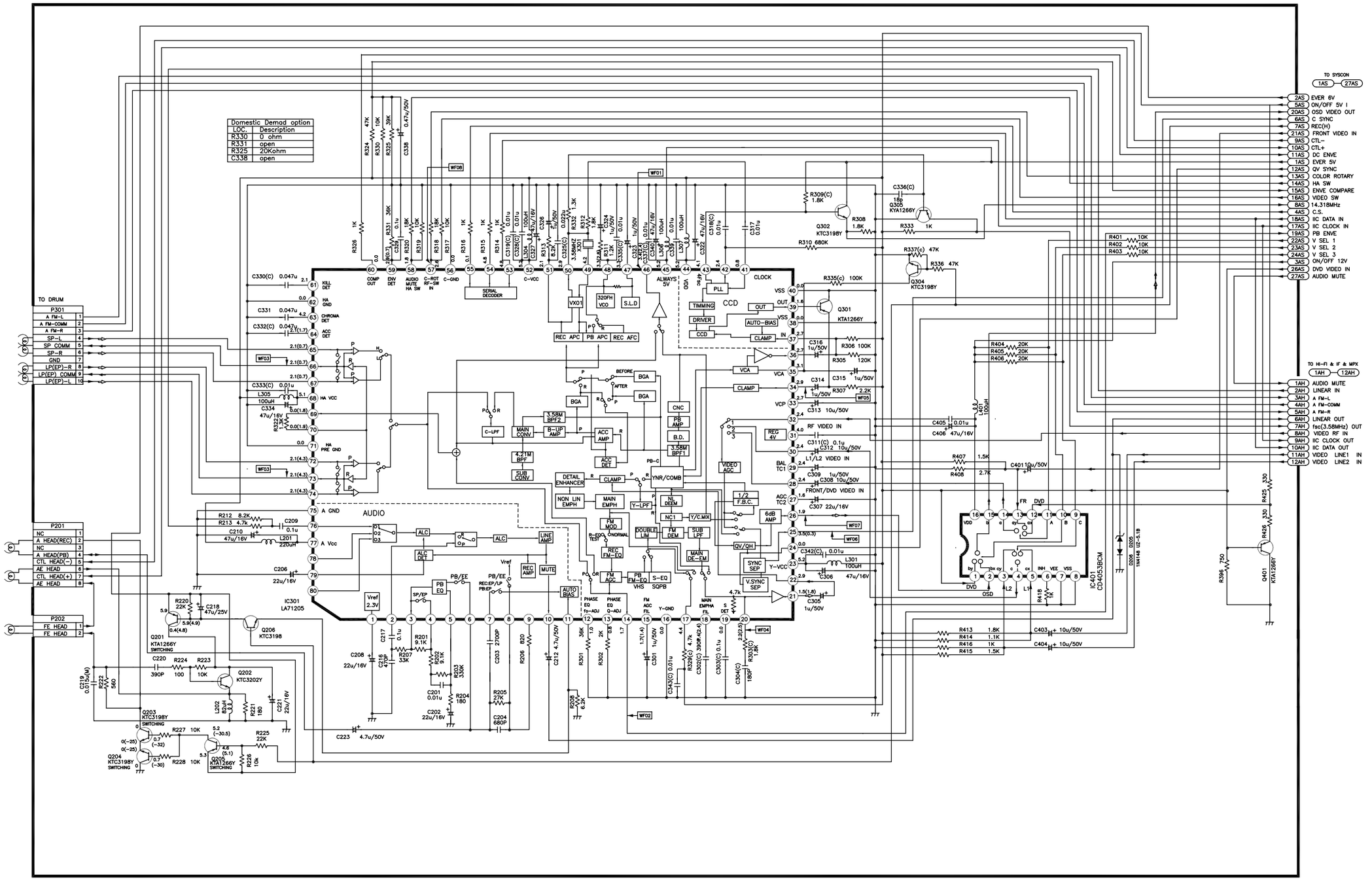
POWER SUPPLY SCHEMATIC DIAGRAM



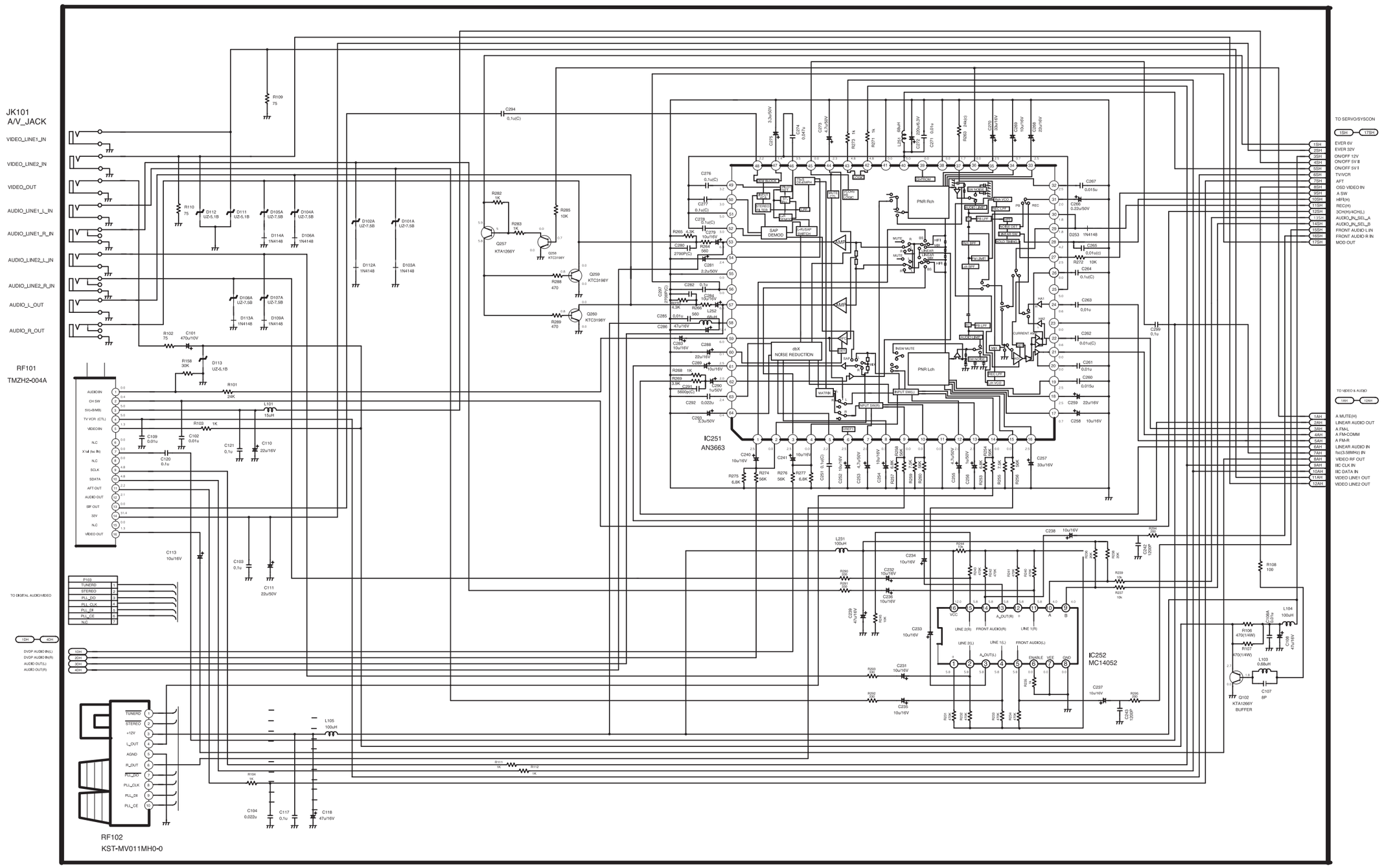
SERVO & SYSCON SCHEMATIC DIAGRAM (DVD COMBO RECEIVER)



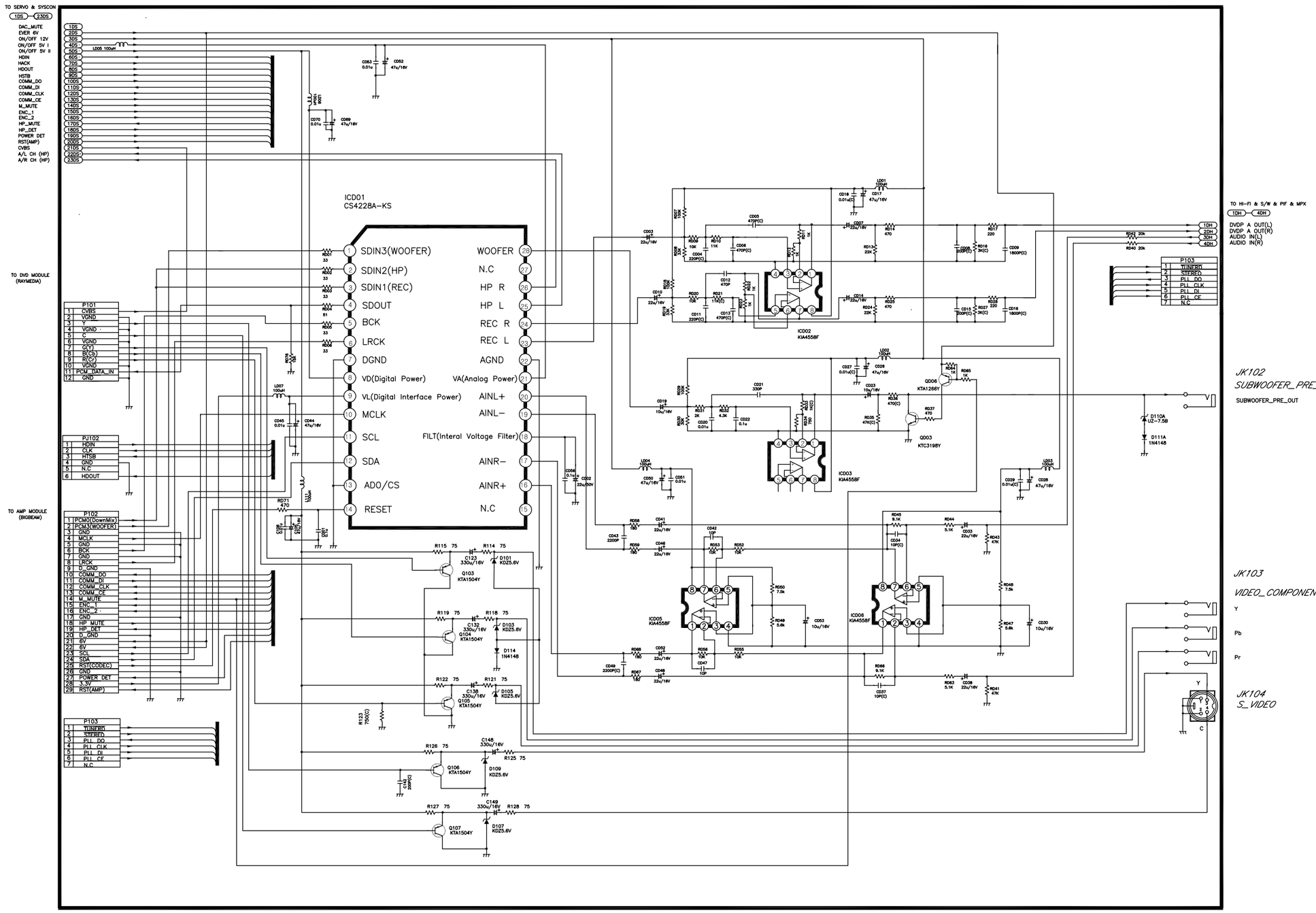
VIDEO/AUDIO SCHEMATIC DIAGRAM (DVD COMBO RECEIVER)



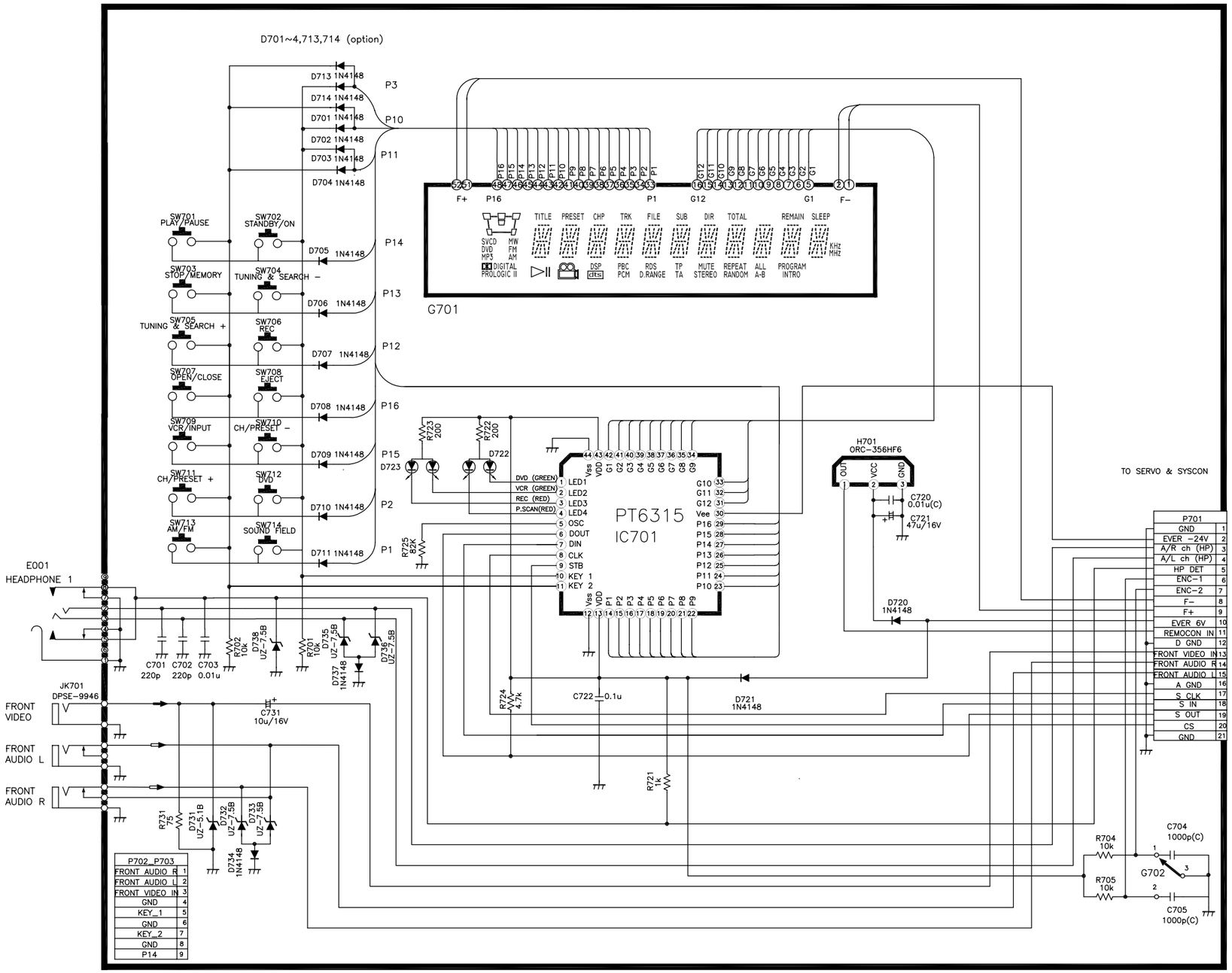
Hi-Fi & S/W & PIF & MPX SCHEMATIC DIAGRAM (DVD COMBO RECEIVER)



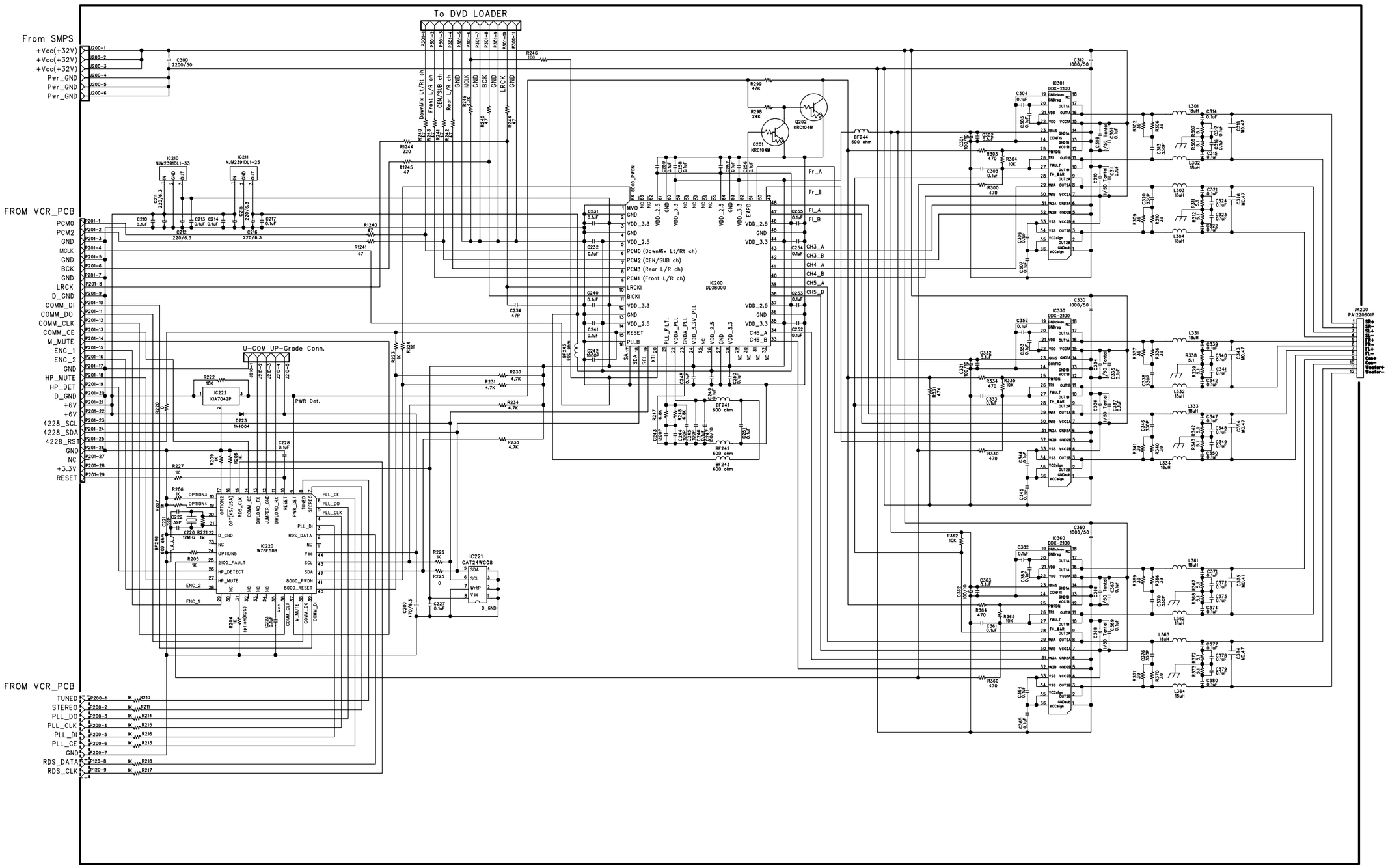
DIGITAL AUDIO/VIDEO SCHEMATIC DIAGRAM(DVD COMBO RECEIVER)



RECEIVER FRONT PART SCHEMATIC DIAGRAM

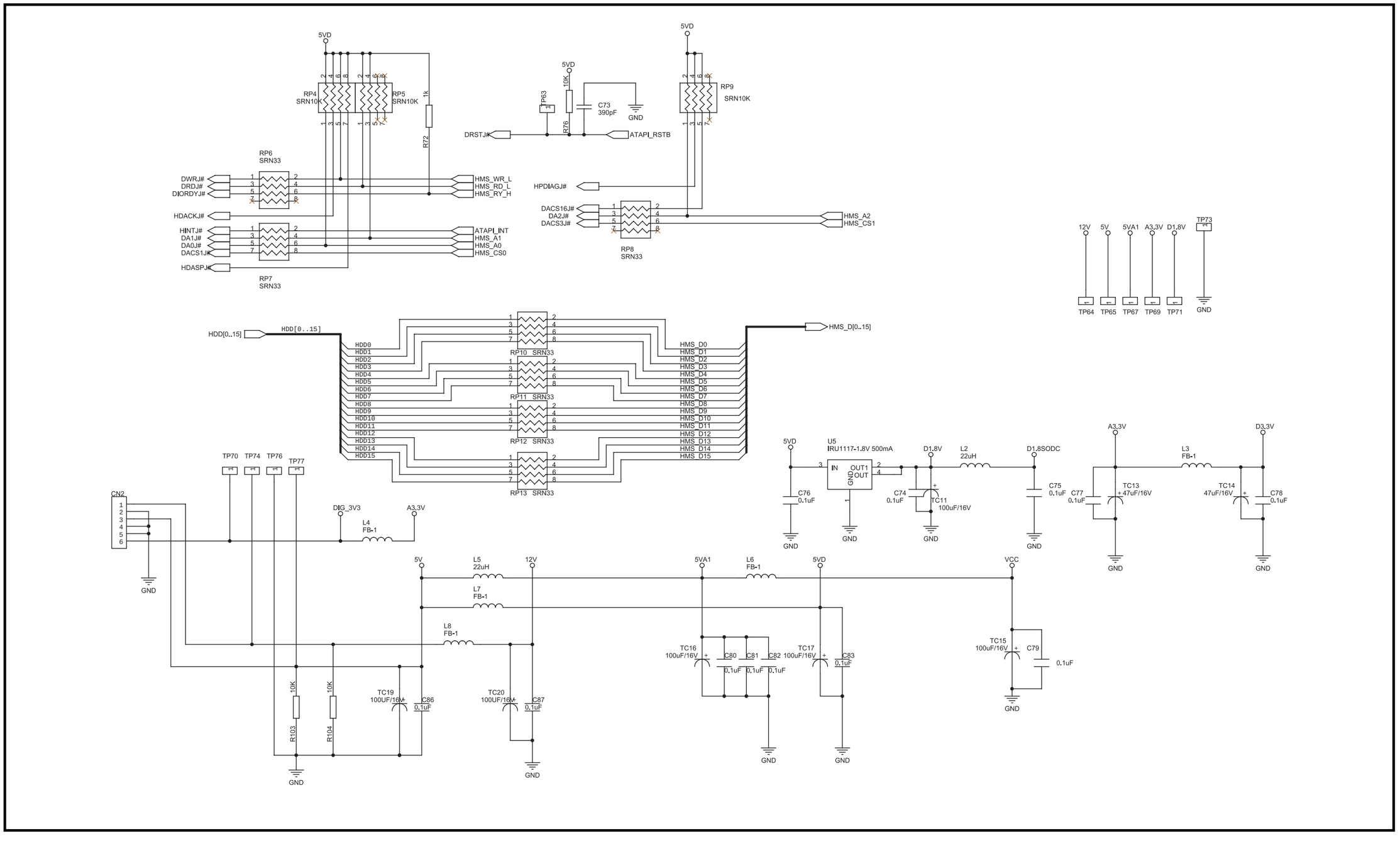


DIGITAL AMP SCHEMATIC DIAGRAM



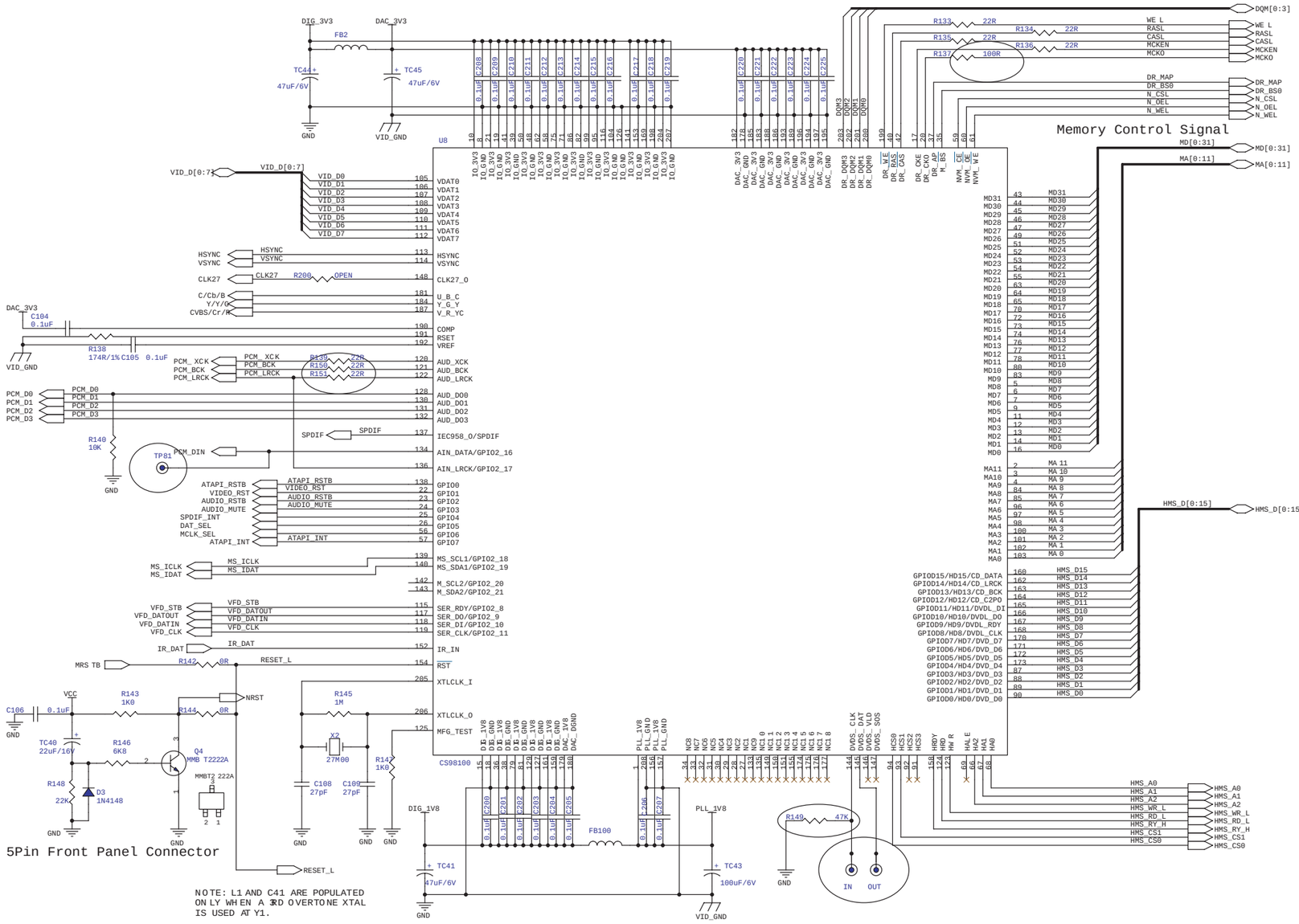
DVD SCHEMATIC DIAGRAM

1. ATAPI I/F



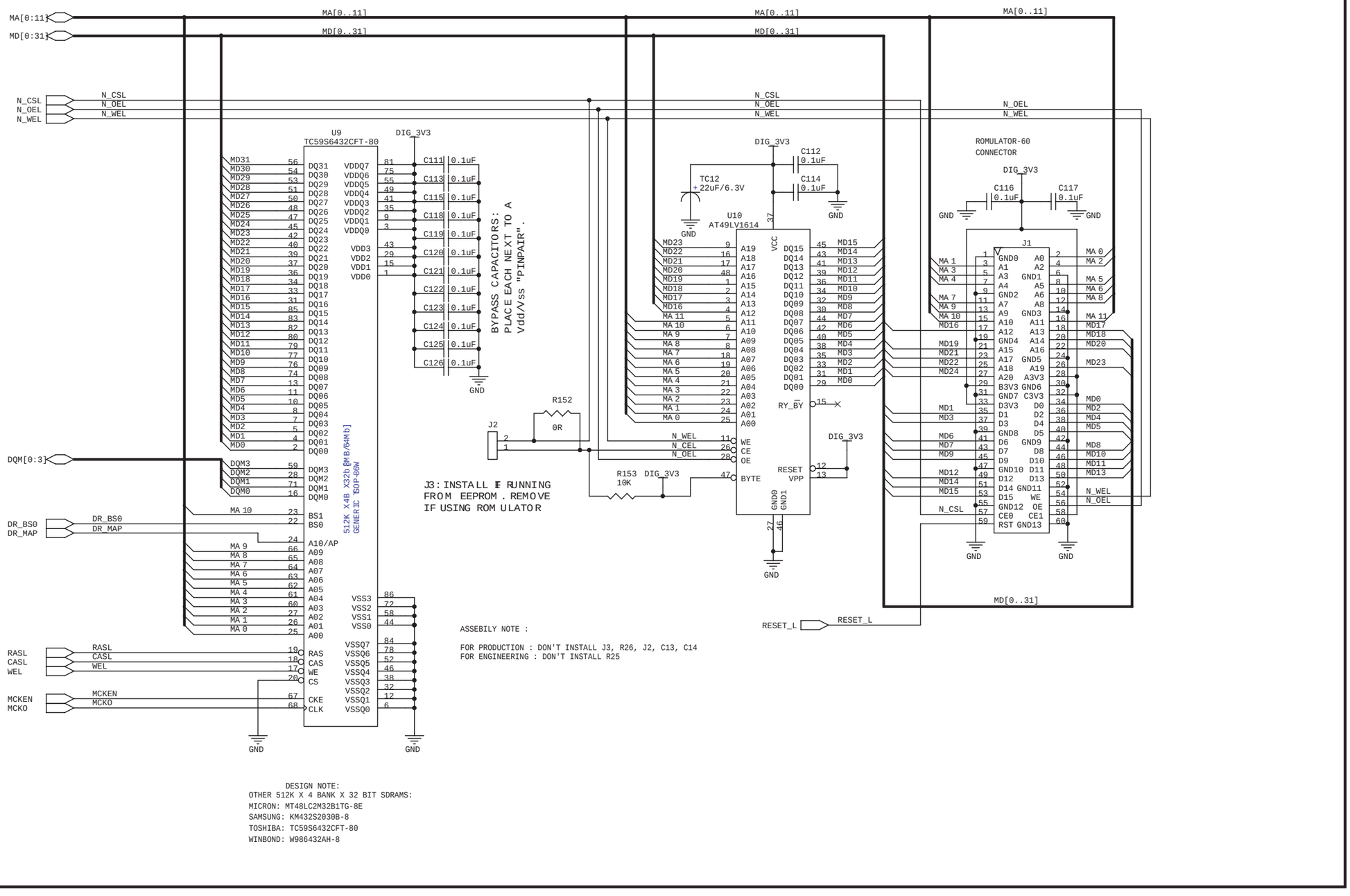
DVD SCHEMATIC DIAGRAM

2. DVD PROCESSOR


U8
CS98100
Memory Control Signal
5Pin Front Panel Connector
NOTE: L1 AND C41 ARE POPULATED ONLY WHEN A 3RD OVERTONE XTAL IS USED AT Y1.

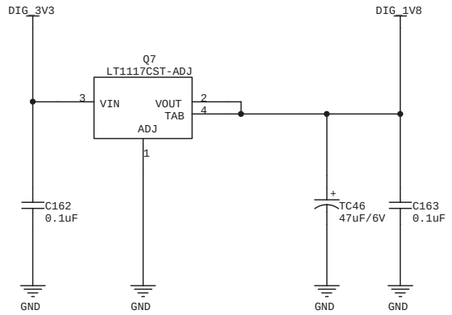
DVD SCHEMATIC DIAGRAM

3. Memory Interface



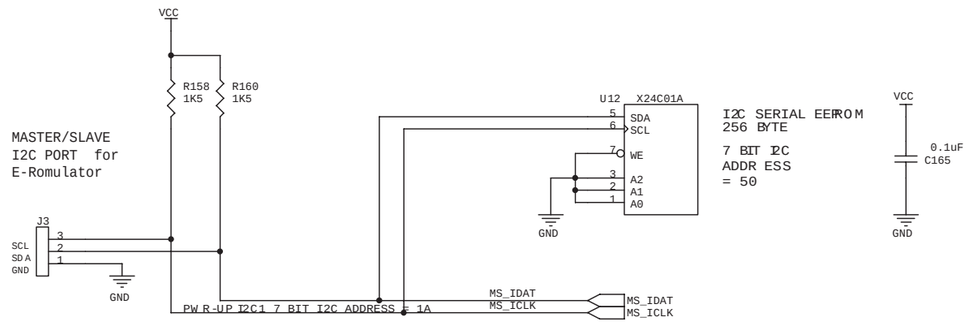
DVD SCHEMATIC DIAGRAM

4. POWER & Bypass Cap

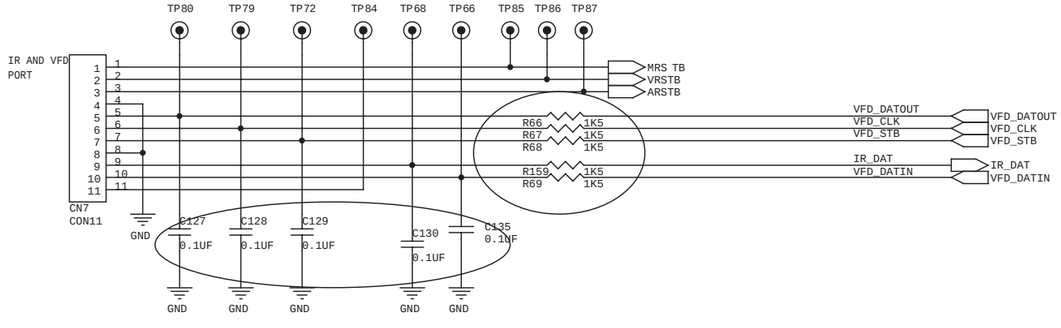


HEAT SINK AREA FOR U1 : FOR THE DEVICE, ALLOW 25MM SQ COPPER AREA ON LAYER 1. THAT IS CONNECTED TO THE "TAB" (PIN 4).

HEAT SINK AREA FOR U2 : FOR THE DEVICE, ALLOW 12MM SQ COPPER AREA ON LAYER 1. THAT IS CONNECTED TO THE "TAB" (PIN 4).

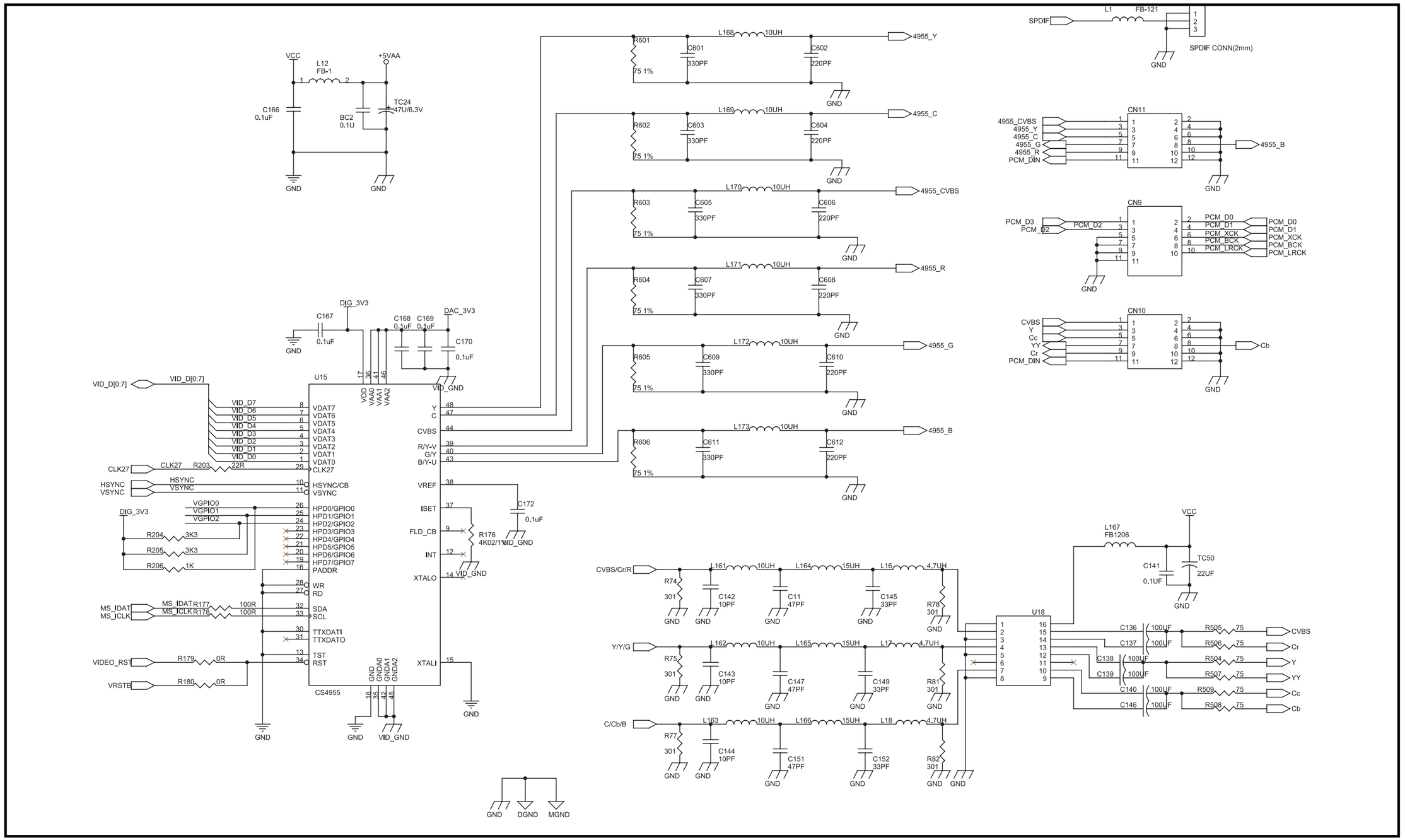


TEST JIG POINT

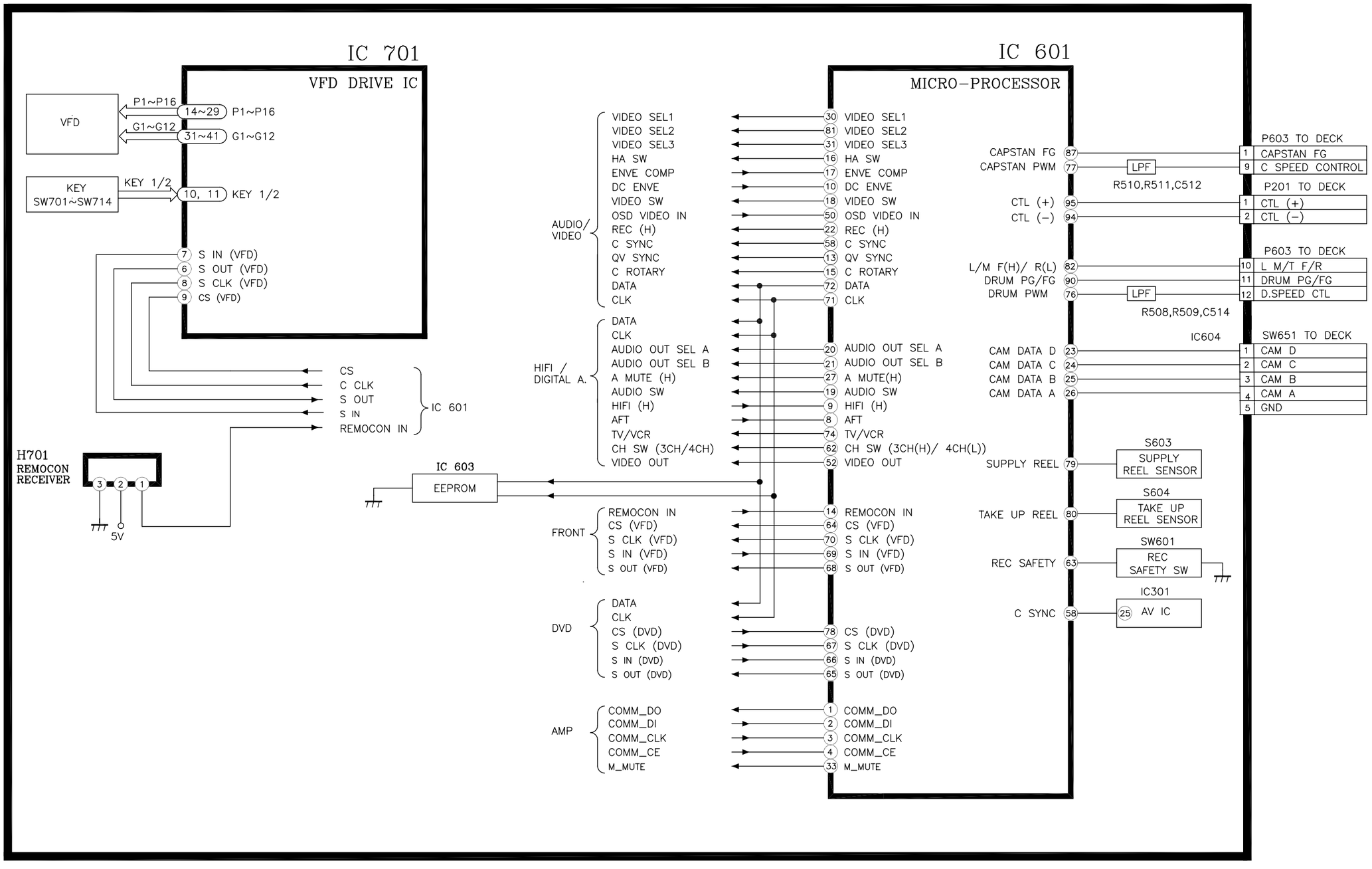


DVD SCHEMATIC DIAGRAM

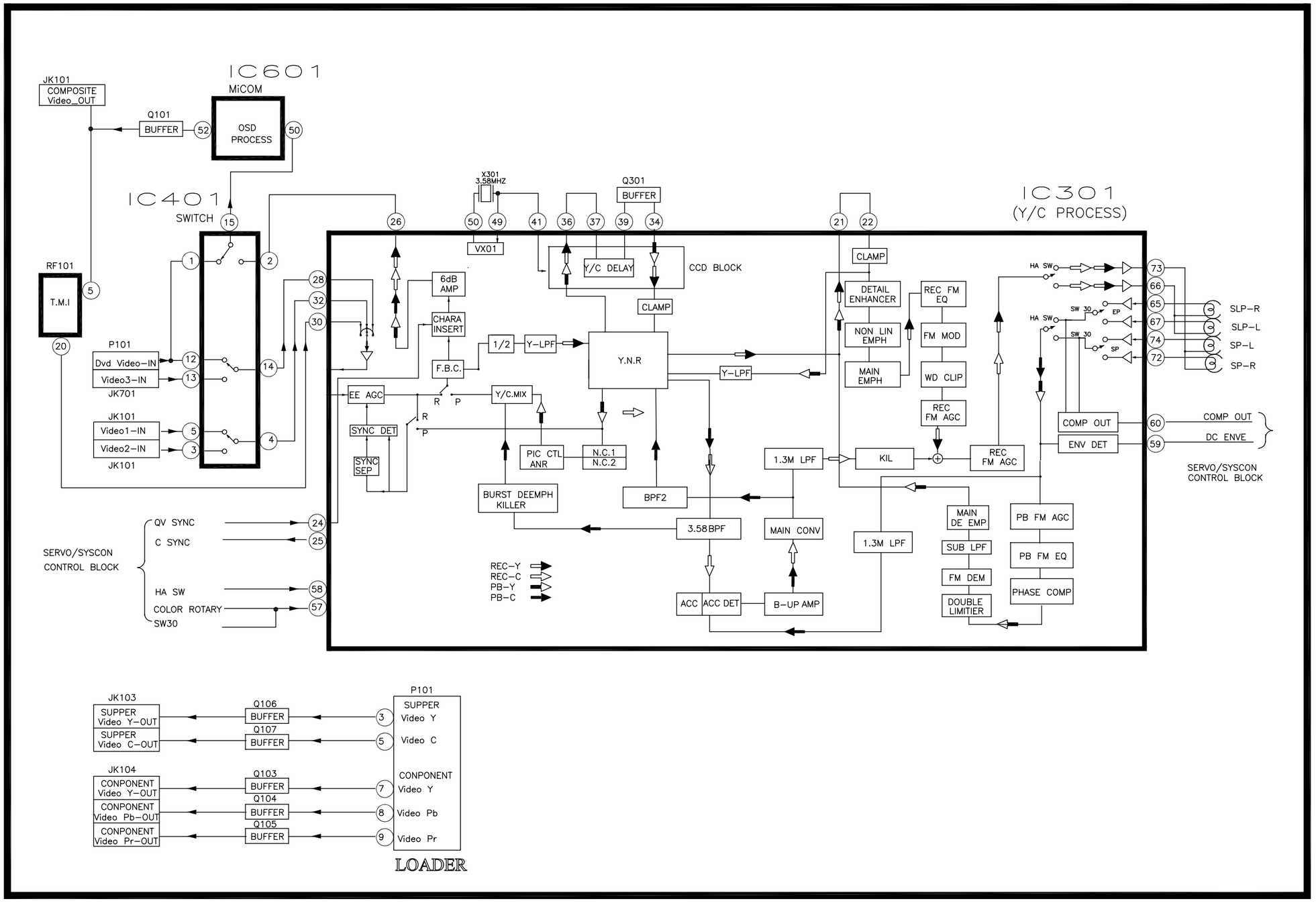
5. VIDEO & AUDIO



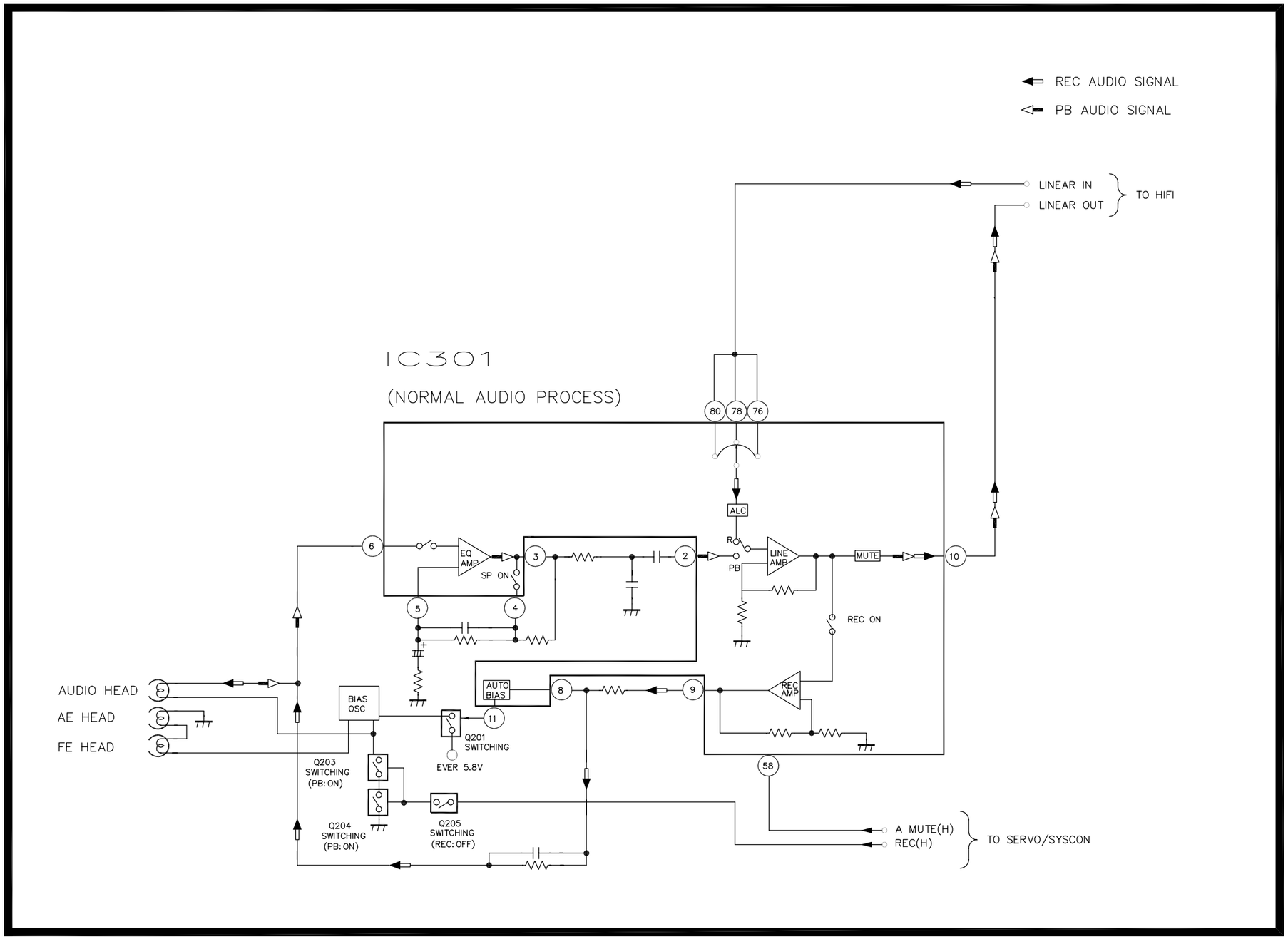
RECEIVER SERVO & SYSCON BLOCK DIAGRAM



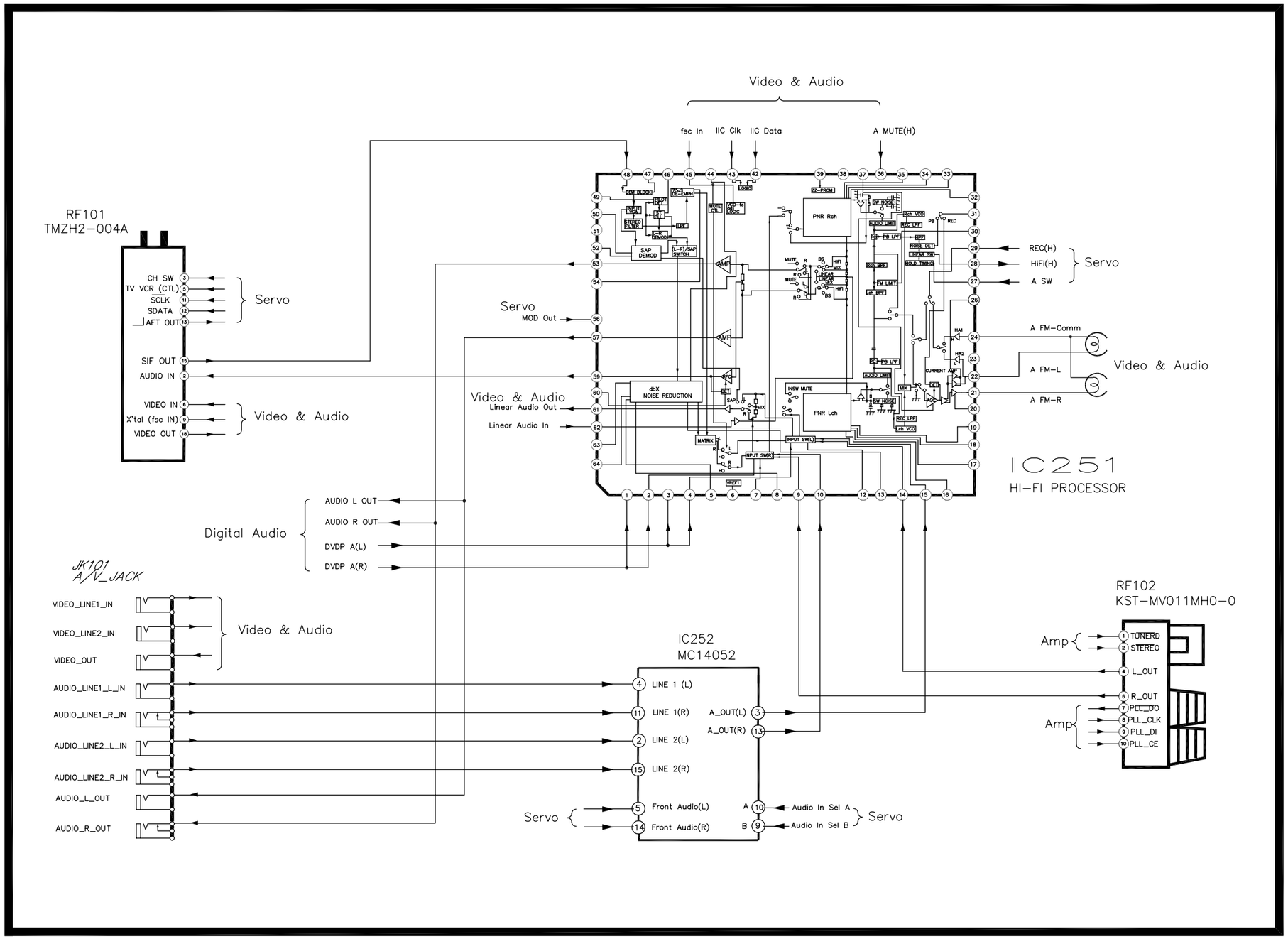
COMBO RECEIVER VIDEO BLOCK DIAGRAM



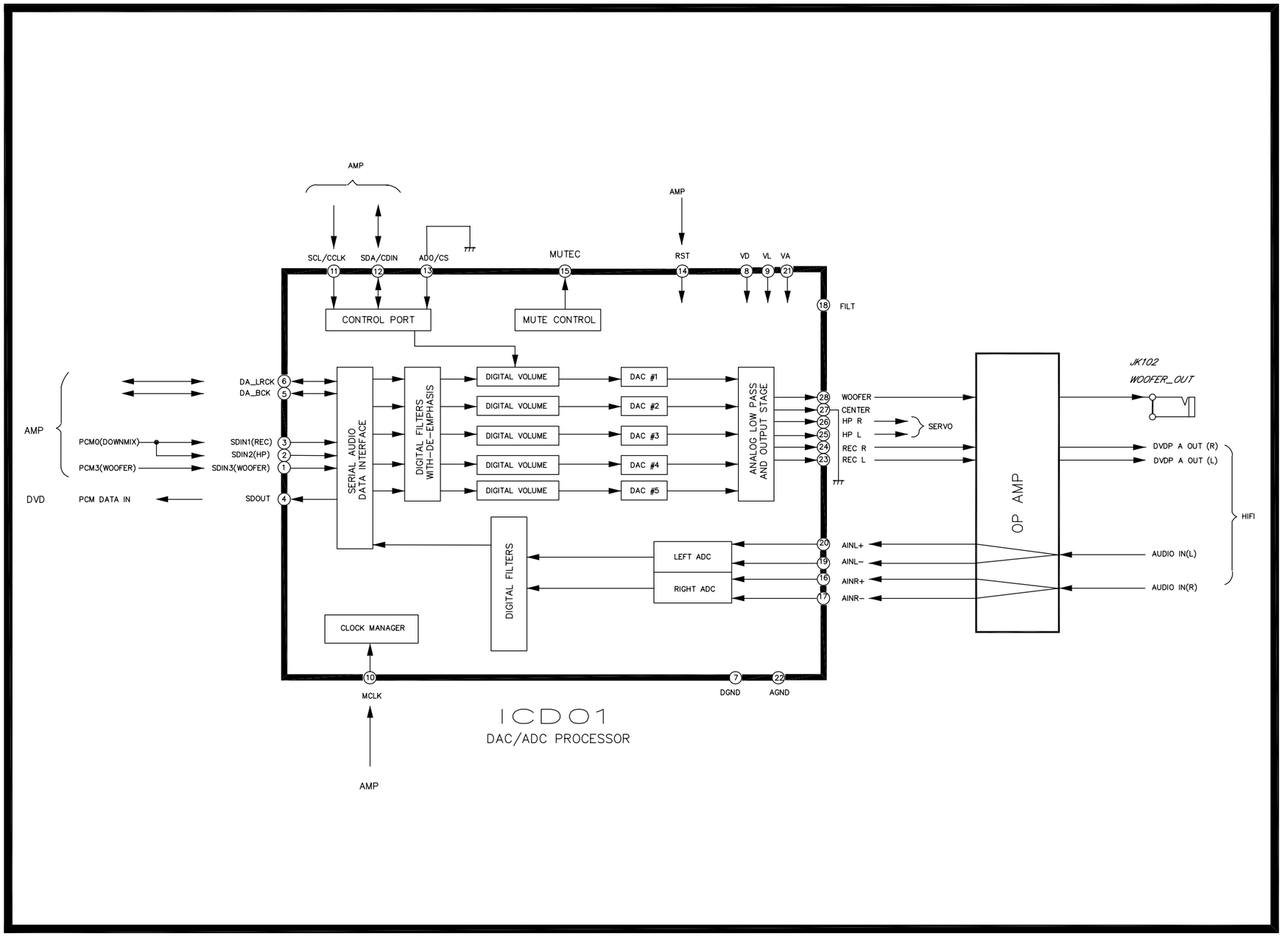
NORMAL AUDIO BLOCK DIAGRAM



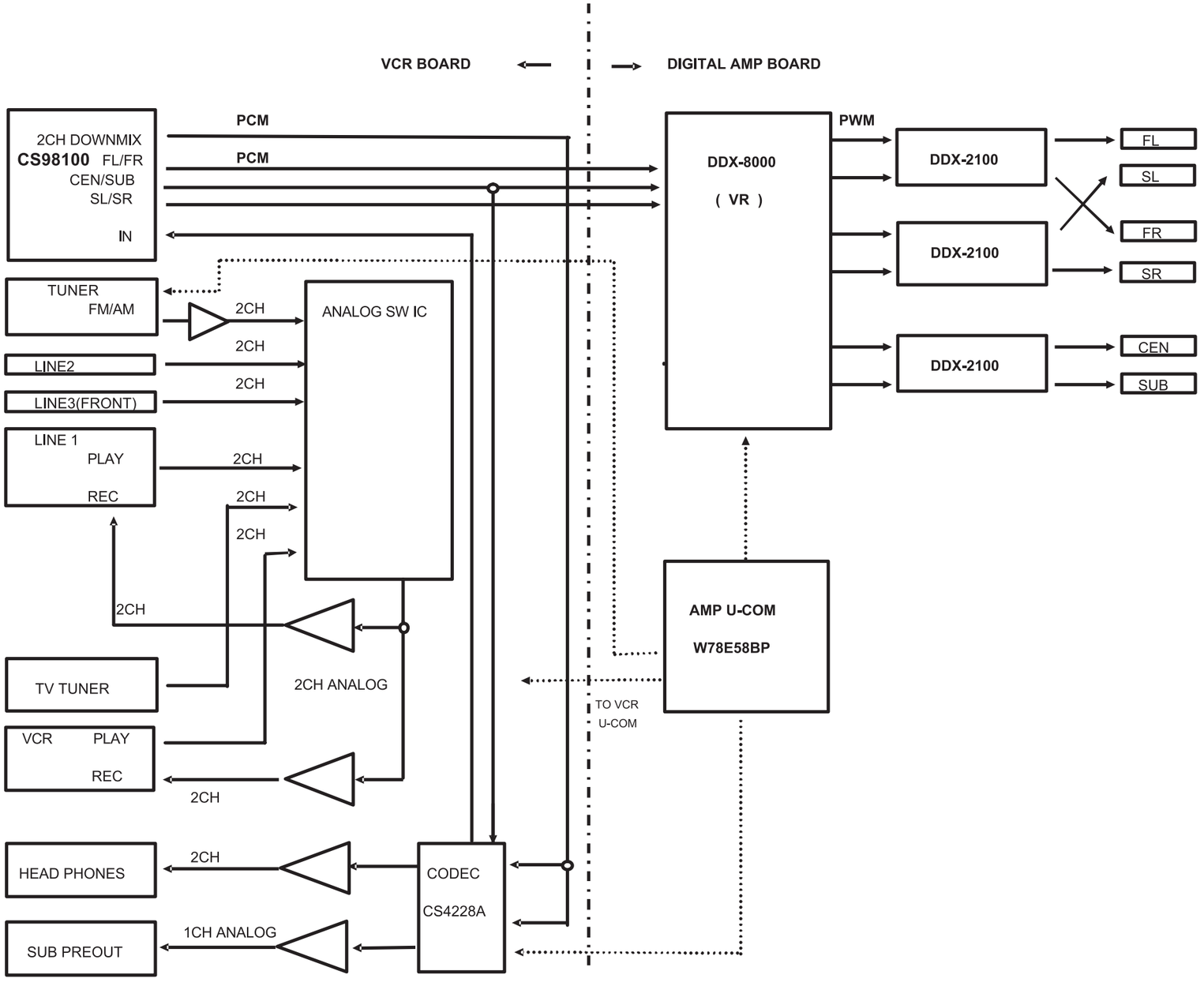
Hi-Fi & S/W & PIF BLOCK DIAGRAM



DIGITAL AUDIO BLOCK DIAGRAM

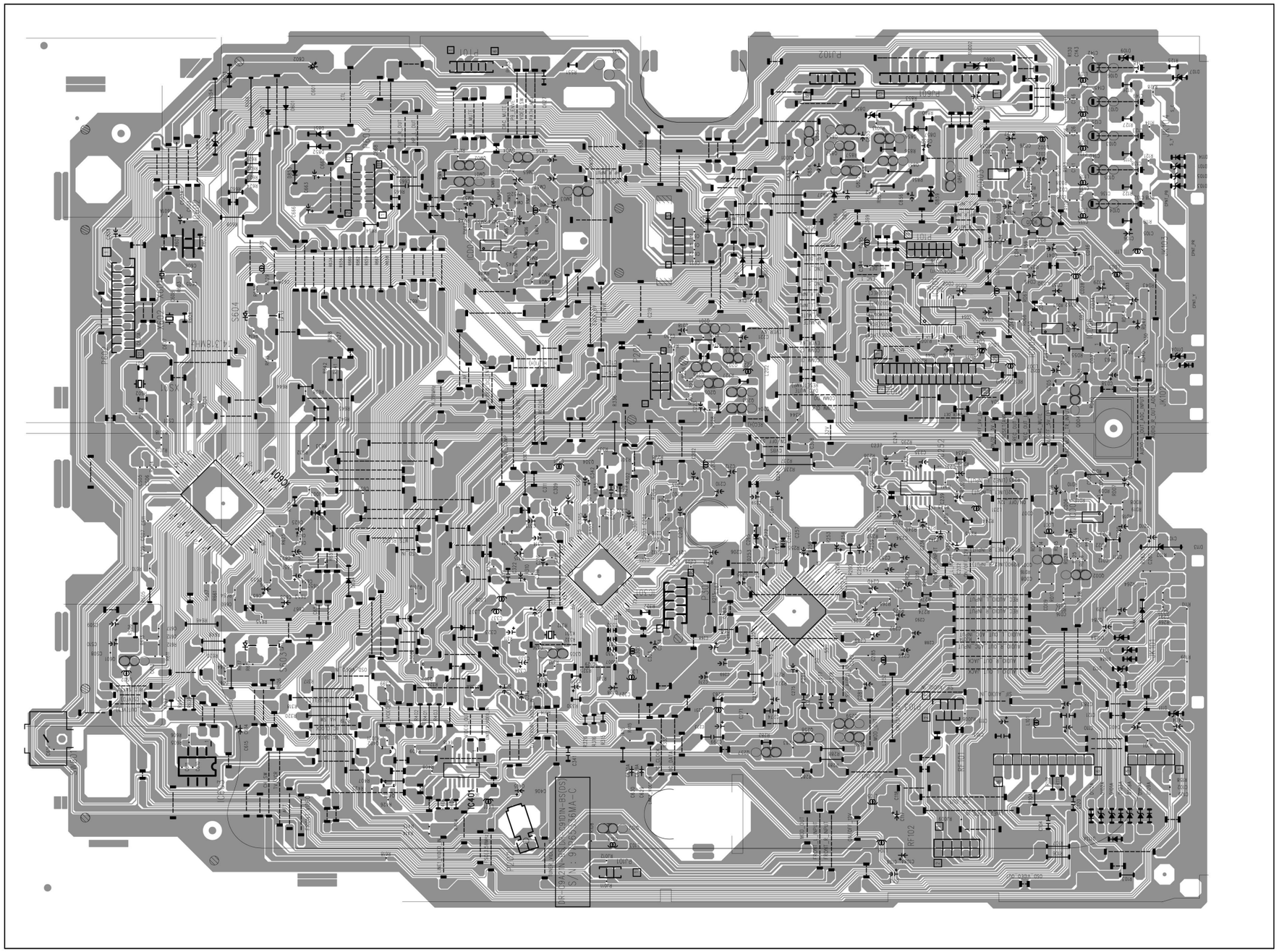


AMP BLOCK DIAGRAM

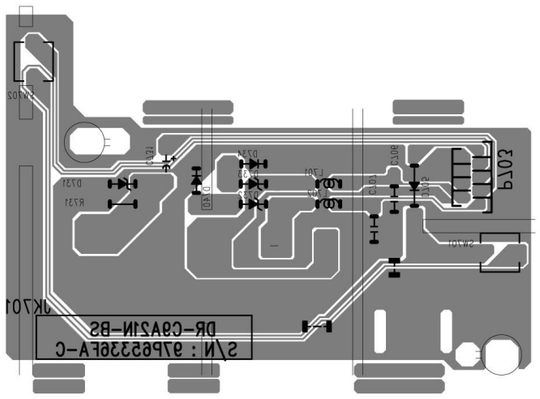


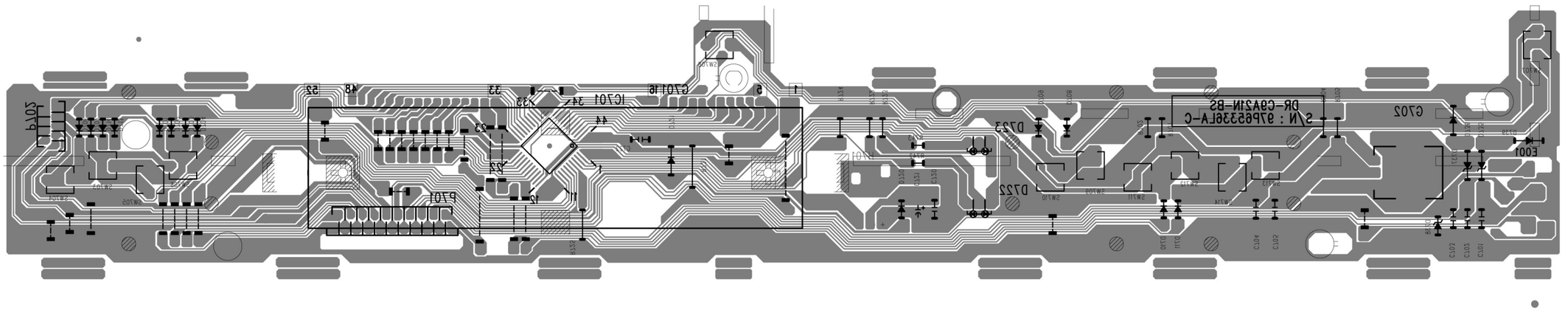
CIRCUIT BOARD INDEX

MAIN PCB CIRCUIT BOARD(RTD300)

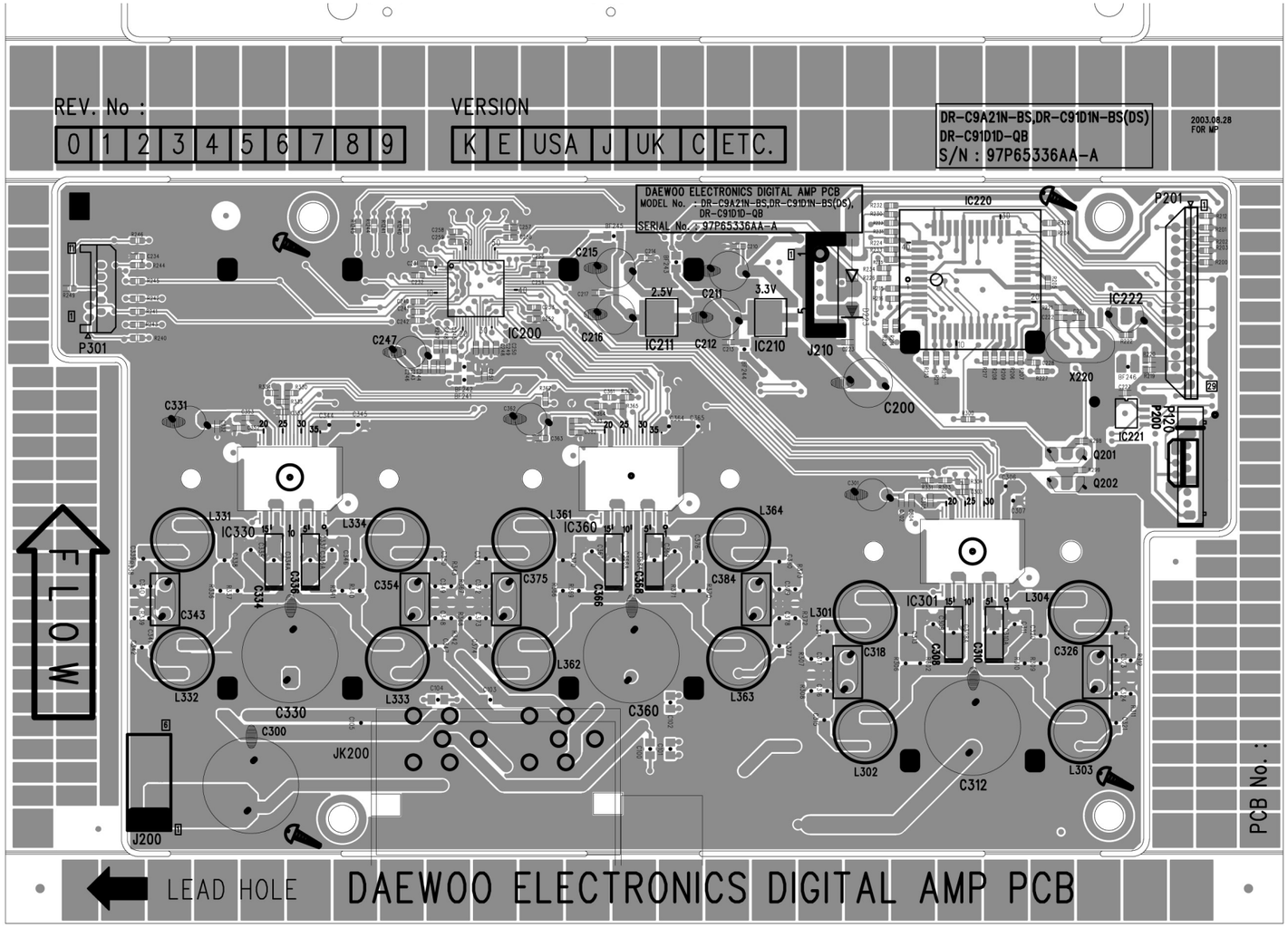


POWER/LOGIC PCB CIRCUIT BOARD(RTD300)





AMP PCB CIRCUIT BOARD(RTD300)



ELECTRICAL PARTSLIST

✔ **Caution**: In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service information Center(http://svc.dwe.co.kr)

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK
Z800	97PD203300	PCB POWER MANUAL AS	ICR 300DN AC85~265V 300W	300 Watt Power	C251	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB
Z800	97PD205100	POWER MODULE AS	ICR 200DN AC85~265V 200W	200 Watt Power	C252	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB
C101	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	Main PCB	C253	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	Main PCB
C102	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	C254	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB
C103	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	Main PCB	C255	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	Main PCB
C104	CBZF1E223Z	C CERA SEMI	25V Y5V 0.022MF Z	Main PCB	C256	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	Main PCB
C105	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	C257	CEXF1C330A	C ELECTRO	16V RSM 33MF (6.3X7) TP	Main PCB
C106	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	C258	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB
C107	HCQK809DBA	C CHIP CERA	50V CH 8PF D 1608	Main PCB	C259	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB
C108	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	C260	CCZB1H153K	C CERA	50V HIKB 0.015MF K AXL 52	Main PCB
C108A	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	C261	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB
C109	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	C262	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB
C110	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	C263	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB
C111	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	Main PCB	C264	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB
C113	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C265	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB
C117	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB	C266	CEXF1H228A	C ELECTRO	50V RSM 0.22MF (4X7)	Main PCB
C118	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	C267	HCBK153KBA	C CHIP CERA	50V X7R 0.015MF K 1608	Main PCB
C120	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	Main PCB	C268	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB
C121	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	Main PCB	C269	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB
C123	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	Main PCB	C270	CEXF1C330A	C ELECTRO	16V RSM 33MF (6.3X7) TP	Main PCB
C132	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	Main PCB	C271	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB
C138	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	Main PCB	C272	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	Main PCB
C142	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	Main PCB	C273	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	Main PCB
C148	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	Main PCB	C274	CCZF1H473Z	C CERA	50V F 0.047MF Z	Main PCB
C149	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	Main PCB	C275	CEXF1H339A	C ELECTRO	50V RSM 3.3MF 4X7	Main PCB
C201	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	C276	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB
C202	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	C277	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	Main PCB
C203	HCBK272KBA	C CHIP CERA	50V X7R 2700PF K 1608	Main PCB	C278	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	Main PCB
C204	HCBK681KBA	C CHIP CERA	50V X7R 680PF K 1608	Main PCB	C279	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB
C206	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	C280	HCBK272KBA	C CHIP CERA	50V X7R 2700PF K 1608	Main PCB
C208	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	C281	CEXF1H229A	C ELECTRO	50V RSM 2.2MF (4X7) TP	Main PCB
C209	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB	C282	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB
C210	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	C283	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB
C212	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	Main PCB	C284	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB
C216	HCQK471JBA	C CHIP CERA	50V CH 470PF J 1608	Main PCB	C285	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB
C217	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB	C286	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB
C218	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	Main PCB	C288	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB
C219	CMXM2A153J	C MYLAR	100V 0.015MF J (TP)	Main PCB	C289	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB
C220	HCBK391KBA	C CHIP CERA	50V X7R 390PF K 1608	Main PCB	C290	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	Main PCB
C221	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	C291	HCBK562KBA	C CHIP CERA	X7R 50V 5600PF K 1608	Main PCB
C223	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	Main PCB	C292	HCBK223KBA	C CHIP CERA	50V X7R 0.022MF K 1608	Main PCB
C231	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C293	CEXF1H339A	C ELECTRO	50V RSM 3.3MF 4X7	Main PCB
C232	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C294	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	Main PCB
C233	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C297	HCBK272KBA	C CHIP CERA	50V X7R 2700PF K 1608	Main PCB
C234	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C299	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	Main PCB
C235	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C301	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	Main PCB
C236	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C302	HCBK391KBA	C CHIP CERA	50V X7R 390PF K 1608	Main PCB
C237	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C303	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	Main PCB
C238	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C304	HCQK181JBA	C CHIP CERA	50V CH 180PF J 1608	Main PCB
C239	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	C305	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	Main PCB
C240	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C306	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB
C241	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C307	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB
C242	HCBK122KBA	C CHIP CERA	50V X7R 1200PF K 1608	Main PCB	C308	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB
C243	HCBK122KBA	C CHIP CERA	50V X7R 1200PF K 1608	Main PCB	C309	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	Main PCB

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK
C311	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	Main PCB	C628	HCQK130JBA	C CHIP CERA	50V CH 13PF J 1608	Main PCB
C312	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C629A	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	Main PCB
C313	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	C630A	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	Main PCB
C314	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	Main PCB	C631A	HCQK240JBA	C CHIP CERA	50V CH 24PF J 1608	Main PCB
C315	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	Main PCB	C651	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608	Main PCB
C316	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	Main PCB	C652	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	Main PCB
C317	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	Main PCB	C653	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB
C318	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	C654	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB
C322	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	C655	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	Main PCB
C323	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	Main PCB	C656	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB
C324	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	Main PCB	C657	CEXP1A101A	C ELECTRO	10V REM 100MF 6.3X5 5T	Main PCB
C325	CBZF1E223Z	C CERA SEMI	25V Y5V 0.022MF Z	Main PCB	C658	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB
C326	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	Main PCB	C659	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608	Main PCB
C327	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	C660	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	Main PCB
C328	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	C661	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB
C329	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB	C662	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB
C330	CCZF1H473Z	C CERA	50V F 0.047MF Z	Main PCB	C663	CEXF1E470A	C ELECTRO	25V RSM 47MF 6.3*7	Main PCB
C331	CCZF1H473Z	C CERA	50V F 0.047MF Z	Main PCB	C664	HCFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	Main PCB
C332	CCZF1H473Z	C CERA	50V F 0.047MF Z	Main PCB	C665	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	Main PCB
C333	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	C666	CEXF1E470A	C ELECTRO	25V RSM 47MF 6.3*7	Main PCB
C334	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	C667	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB
C335	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	C668	HCBK272KBA	C CHIP CERA	50V X7R 2700PF K 1608	Main PCB
C336	HCQK180JBA	C CHIP CERA	50V CH 18PF J 1608	Main PCB	C851	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	Main PCB
C337	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	C852	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	Main PCB
C338	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7	Main PCB	C853	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	Main PCB
C339	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	Main PCB	C854	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	Main PCB
C340	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	C855	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	Main PCB
C341	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	Main PCB	C858	CEXF1H470V	C ELECTRO	50V RSS 47MF (6.3X11) TP	Main PCB
C342	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	CD01	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB
C343	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	CD02	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB
C403	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	CD03	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB
C404	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	CD04	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608	Main PCB
C405	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	CD05	HCBK471KBA	C CHIP CERA	50V X7R 470PF K 1608	Main PCB
C406	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	CD06	HCBK471KBA	C CHIP CERA	50V X7R 470PF K 1608	Main PCB
C603A	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	CD07	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB
C604	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	CD08	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	Main PCB
C608	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	Main PCB	CD09	HCBK182KBA	C CHIP CERA	X7R 50V 1800PF K 1608	Main PCB
C609	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	Main PCB	CD10	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB
C610	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	Main PCB	CD11	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608	Main PCB
C611	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	Main PCB	CD12	HCBK471KBA	C CHIP CERA	50V X7R 470PF K 1608	Main PCB
C612	HCBK471KBA	C CHIP CERA	50V X7R 470PF K 1608	Main PCB	CD13	HCBK471KBA	C CHIP CERA	50V X7R 470PF K 1608	Main PCB
C613	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	Main PCB	CD14	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB
C614	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	Main PCB	CD15	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	Main PCB
C615	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	CD16	HCBK182KBA	C CHIP CERA	X7R 50V 1800PF K 1608	Main PCB
C616	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	CD17	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB
C617	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	Main PCB	CD18	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB
C618	HCBK223KBA	C CHIP CERA	50V X7R 0.022MF K 1608	Main PCB	CD19	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB
C619	HCBK223KBA	C CHIP CERA	50V X7R 0.022MF K 1608	Main PCB	CD20	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB
C621	HCBK223KBA	C CHIP CERA	50V X7R 0.022MF K 1608	Main PCB	CD21	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	Main PCB
C622	HCBK223KBA	C CHIP CERA	50V X7R 0.022MF K 1608	Main PCB	CD22	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB
C623	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	Main PCB	CD23	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB
C624	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	CD26	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB
C625	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	CD27	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB
C626	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB	CD28	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB
C627	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	Main PCB	CD29	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB

ELECTRICAL PARTSLIST

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK
CD30	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	D108A	DZUZ7R5BSC	DIODE ZENER	UZ-7.5BSC(7.33-7.64)	Main PCB
CD33	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	D109	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)	Main PCB
CD34	HCQK100JBA	C CHIP CERA	50V CH 10PF J 1608	Main PCB	D109A	DZN4148 -	DIODE	1N4148 AUTO 52MM	Main PCB
CD37	HCQK100JBA	C CHIP CERA	50V CH 10PF J 1608	Main PCB	D110A	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)	Main PCB
CD38	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	D111	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)	Main PCB
CD41	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	D111A	DZN4148 -	DIODE	1N4148 AUTO 52MM	Main PCB
CD42	HCQK100JBA	C CHIP CERA	50V CH 10PF J 1608	Main PCB	D112	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)	Main PCB
CD43	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608	Main PCB	D112A	DZN4148 -	DIODE	1N4148 AUTO 52MM	Main PCB
CD44	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	D113	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)	Main PCB
CD45	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	D113A	DZN4148 -	DIODE	1N4148 AUTO 52MM	Main PCB
CD46	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	D114	DZN4148 -	DIODE	1N4148 AUTO 52MM	Main PCB
CD47	HCQK100JBA	C CHIP CERA	50V CH 10PF J 1608	Main PCB	D114A	DZN4148 -	DIODE	1N4148 AUTO 52MM	Main PCB
CD48	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	D253	DZN4148 -	DIODE	1N4148 AUTO 52MM	Main PCB
CD49	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608	Main PCB	D601	DZN4004 -	DIODE	1N4004(AUTO)	Main PCB
CD50	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	D602	DZN4004 -	DIODE	1N4004(AUTO)	Main PCB
CD51	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	D603	DZN4004 -	DIODE	1N4004(AUTO)	Main PCB
CD52	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	D604	DZN4148 -	DIODE	1N4148 AUTO 52MM	Main PCB
CD53	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	D605	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB
CD54	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	D606	DZN4148 -	DIODE	1N4148 AUTO 52MM	Main PCB
CD55	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	D607	DZN4148 -	DIODE	1N4148 AUTO 52MM	Main PCB
CD56	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB	D851	DZN4004 -	DIODE	1N4004(AUTO)	Main PCB
CD69	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	D852	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB
CD70	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	D853	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB
CM34	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	D854	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)	Main PCB
CM36	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	D855	DZN4004 -	DIODE	1N4004(AUTO)	Main PCB
CM56	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	D856	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)	Main PCB
CM57	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Main PCB	D857	DZN4004 -	DIODE	1N4004(AUTO)	Main PCB
CM58	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	D858	DZUZ3R9BSA	DIODE ZENER	UZ-3.9BSA(3.77-3.98V)	Main PCB
CM59	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608	Main PCB	D859	DZUZ33BSB-	DIODE ZENER	UZ-33BSB(30.32-31.38V)	Main PCB
CM60	HCQK471JBA	C CHIP CERA	50V CH 470PF J 1608	Main PCB	IC251	1AN3663 -	IC HIFI	AN3663	Main PCB
CM61	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	Main PCB	IC252	1HEF4052BD	IC CHIP SW	HEF4052B	Main PCB
CM62	CEXF1A101V	C ELECTRO	10V RSS 100MF	Main PCB	IC301	1LA71207M-	IC A/V	LA71207M QFP 80PIN	Main PCB
CM65	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	Main PCB	IC401	1HEF4053BD	IC CHIP	HEF4053B	Main PCB
CM66	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608	Main PCB	IC601	168KT87DTS	IC MICOM	M37762M8A-8C6GP	Main PCB
CM67	HCQK471JBA	C CHIP CERA	50V CH 470PF J 1608	Main PCB	IC603	14SEK24D08	IC EEPROM	S-24C08ADP-01(8K DIP)	Main PCB
CM68	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	Main PCB	ICD01	1CS4228A-B	IC DAC/ADC	CS4228A-KS 28-PIN-SSOP	Main PCB
CM69	CEXF1A101V	C ELECTRO	10V RSS 100MF	Main PCB	ICD02	1K1A4558F-	IC AMP	KIA4558F	Main PCB
CS05	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	ICD03	1K1A4558F-	IC AMP	KIA4558F	Main PCB
CS06	HCBK471KBA	C CHIP CERA	50V X7R 470PF K 1608	Main PCB	ICD04	1NJM4580MC	IC CHIP AMP	NJM4580M	Main PCB
CS07	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	Main PCB	ICD05	1K1A4558F-	IC AMP	KIA4558F	Main PCB
CS08	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	Main PCB	ICD06	1K1A4558F-	IC AMP	KIA4558F	Main PCB
CS09	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Main PCB	JK101	97P6318380	JACK PIN	DPAM-0215	Main PCB
CS10	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	Main PCB	JK102	97P6318050	JACK PIN(COAXIAL)	DPAM-0011	Main PCB
CS11	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	Main PCB	JK103	97P6318370	JACK PIN	DPAM-0214	Main PCB
D101	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)	Main PCB	JK104	97P6318010	JACK PIN(S-VHS)	DUAE-9812	Main PCB
D101A	DZUZ7R5BSC	DIODE ZENER	UZ-7.5BSC(7.33-7.64)	Main PCB	JP022	RD-4Z471JS	R CARBON FILM	1/4 470 OHM J SMALL	Main PCB
D102A	DZUZ7R5BSC	DIODE ZENER	UZ-7.5BSC(7.33-7.64)	Main PCB	JP105	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB
D103	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)	Main PCB	JP128	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB
D103A	DZN4148 -	DIODE	1N4148 AUTO 52MM	Main PCB	JP157	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J	Main PCB
D104A	DZUZ7R5BSC	DIODE ZENER	UZ-7.5BSC(7.33-7.64)	Main PCB	JP216	RD-4Z471JS	R CARBON FILM	1/4 470 OHM J SMALL	Main PCB
D105	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)	Main PCB	JP248	5PB13857	COIL BEAD	BI3857(AXIAL)	Main PCB
D105A	DZUZ7R5BSC	DIODE ZENER	UZ-7.5BSC(7.33-7.64)	Main PCB	JP249	5PB13857	COIL BEAD	BI3857(AXIAL)	Main PCB
D106A	DZN4148 -	DIODE	1N4148 AUTO 52MM	Main PCB	JP273	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	Main PCB
D107	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)	Main PCB	JP378	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB
D107A	DZUZ7R5BSC	DIODE ZENER	UZ-7.5BSC(7.33-7.64)	Main PCB	L101	5CPX150J2T	COIL PEAKING	15UH(GREN-BLK)	Main PCB

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK
L103	5CPX688K2T	COIL PEAKING	0.68UH(BLU-SILV)	Main PCB	Q201	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	Main PCB
L104	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	Q202	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)	Main PCB
L105	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	Q203	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	Main PCB
L106	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB	Q204	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	Main PCB
L107	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB	Q205	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	Main PCB
L108	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB	Q206	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	Main PCB
L109	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB	Q257	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	Main PCB
L110	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB	Q258	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	Main PCB
L111	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	Q259	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	Main PCB
L201	5CPX221J2T	COIL PEAKING	220UH(RED-BRN)	Main PCB	Q260	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	Main PCB
L202	5CPX820J	COIL PEAKING	82UH J (RADIAL)	Main PCB	Q301	T2SA1037KB	TR CHIP	2SA1037AKT146-R	Main PCB
L231	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	Q302	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	Main PCB
L251	5CPX680J2T	COIL PEAKING	68UH(BLU-BLK)	Main PCB	Q304	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	Main PCB
L252	5CPX680J2T	COIL PEAKING	68UH(BLU-BLK)	Main PCB	Q305	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	Main PCB
L301	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	Q401	T2SA1037KB	TR CHIP	2SA1037AKT146-R	Main PCB
L304	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	Q601	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	Main PCB
L305	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	Q851	TZTC3205Y-	TR	KTC3205Y (2236Y)	Main PCB
L306	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	Q852	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	Main PCB
L307	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	Q853	TZTC3205Y-	TR	KTC3205Y (2236Y)	Main PCB
L399	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB	Q854	TZTC3205Y-	TR	KTC3205Y (2236Y)	Main PCB
L401	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	QD03	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	Main PCB
L601	5CPX120J	COIL PEAKING	12UH J (RADIAL)	Main PCB	QD06	T2SA1037KB	TR CHIP	2SA1037AKT146-R	Main PCB
LD01	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	QM01	TZTD1302	TR	KTD1302	Main PCB
LD02	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	QM02	TZTD1302	TR	KTD1302	Main PCB
LD03	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	QM03	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	Main PCB
LD04	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	QM04	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	Main PCB
LD05	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	R101	HRFS243JBA	R CHIP	1/16 24K OHM J 1608	Main PCB
LD06	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	R102	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	Main PCB
LD07	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	R103	RD-4Z102JS	R CARBON FILM	1/4 1K OHM J SMALL	Main PCB
LM34	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	Main PCB	R104	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB
LS02	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB	R106	RD-4Z471JS	R CARBON FILM	1/4 470 OHM J SMALL	Main PCB
P101	97P62Y302C	CONN WAFER	YDW200-12 ST PLUG 12P	Main PCB	R107	RD-4Z471JS	R CARBON FILM	1/4 470 OHM J SMALL	Main PCB
P101A	97P885X192	CONN AS	12H-12H 220MM	Main PCB	R108	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	Main PCB
P102A	97P88FAV13	CABLE FFC	1.0 K 29P 130MM	Main PCB	R109	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	Main PCB
P103	97P62G08E7	CONN FFC	GF102-07S-TS 07P ST	Main PCB	R110	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	Main PCB
P103A	97P88FA714	CABLE FFC	1.0 K 7P 140MM	Main PCB	R111	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB
P120	97P62G08EV	CONN FFC	GF102-29S-TS 29P ST	Main PCB	R112	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB
P201	97P62Y1318	CONN WAFER	DVW250 PLUG 2.5MM 8P	Main PCB	R114	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	Main PCB
P202	97P62T14B2	CONN HOUSING	TMC-EX-B1 RECEP 2.0MM 2P	Main PCB	R115	RD-4Z750JS	R CARBON FILM	1/4 75 OHM J SMALL	Main PCB
P301	97P62G06DA	CONN FFC	GF120-10S-TS 10P ST	Main PCB	R118	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	Main PCB
P301A	97P88FAB10	CABLE FFC	1.0 K 11P 100MM	Main PCB	R119	RD-4Z750JS	R CARBON FILM	1/4 75 OHM J SMALL	Main PCB
P301A	97P0478200	CASE SHI PREAMP	ET T0.4	Main PCB	R121	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	Main PCB
P602	97P62G06DM	CONN FFC	GF120-21S-TS 21P ST	Main PCB	R122	RD-4Z750JS	R CARBON FILM	1/4 75 OHM J SMALL	Main PCB
P602A	97P88F1M10	CABLE FFC	1.25 R 21P 100MM	Main PCB	R123	HRFS751JBA	R CHIP	1/16 750 OHM J 1608	Main PCB
P603	97P62J012C	CONN B/B	JE612 PLUG 2.0 12P	Main PCB	R125	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	Main PCB
PJ102	97P885X193	CONN AS	6H-6S 250MM	Main PCB	R126	RD-4Z750JS	R CARBON FILM	1/4 75 OHM J SMALL	Main PCB
PJ601	97P885X195	CONN AS	13H-13S 100MM	Main PCB	R127	RD-4Z750JS	R CARBON FILM	1/4 75 OHM J SMALL	Main PCB
PT01	97P6269000	CONN WAFER	00-8283-0612-00000	Main PCB	R128	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	Main PCB
PW01	97P69BY91A	CORD POWER	USA KKP-10W YH396 BHF-1528F	Main PCB	R130	HRFS432JBA	R CHIP	1/16 4.3K OHM J 1608	Main PCB
Q102	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	Main PCB	R131	HRFS751JBA	R CHIP	1/16 750 OHM J 1608	Main PCB
Q103	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	Main PCB	R158	HRFS303JBA	R CHIP	1/16 30K OHM J 1608	Main PCB
Q104	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	Main PCB	R201	HRFS912JBA	R CHIP	1/16 9.1K OHM J 1608	Main PCB
Q105	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	Main PCB	R202	HRFS912JBA	R CHIP	1/16 9.1K OHM J 1608	Main PCB
Q106	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	Main PCB	R203	HRFS334JBA	R CHIP	1/16 330K OHM J 1608	Main PCB
Q107	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	Main PCB	R204	HRFS181JBA	R CHIP	1/16 180 OHM J 1608	Main PCB

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK
R205	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	Main PCB	R288	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	Main PCB
R206	HRFS821JBA	R CHIP	1/16 820 OHM J 1608	Main PCB	R289	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	Main PCB
R207	HRFS333JBA	R CHIP	1/16 33K OHM J 1608	Main PCB	R290	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	Main PCB
R208	RD-AZ622J-	R CARBON FILM	1/6 6.2K OHM J	Main PCB	R291	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	Main PCB
R212	HRFS822JBA	R CHIP	1/16 8.2K OHM J 1608	Main PCB	R292	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	Main PCB
R213	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	Main PCB	R293	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	Main PCB
R220	HRFS223JBA	R CHIP	1/16 22K OHM J 1608	Main PCB	R294	RD-AZ201J-	R CARBON FILM	1/6 200 OHM J	Main PCB
R221	HRFS181JBA	R CHIP	1/16 180 OHM J 1608	Main PCB	R295	HRFS201JBA	R CHIP	1/16 200 OHM J 1608	Main PCB
R222	HRFS561JBA	R CHIP	1/16 560 OHM J 1608	Main PCB	R301	HRFS363JBA	R CHIP	1/16 36K OHM J 1608	Main PCB
R223	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	R302	HRFS202JBA	R CHIP	1/16 2K OHM J 1608	Main PCB
R224	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	Main PCB	R303	HRFS182JBA	R CHIP	1/16 1.8K OHM J 1608	Main PCB
R225	HRFS223JBA	R CHIP	1/16 22K OHM J 1608	Main PCB	R305	HRFS124JBA	R CHIP	1/16 120K OHM J 1608	Main PCB
R226	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	R306	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	Main PCB
R227	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	R307	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J	Main PCB
R228	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	R308	HRFS182JBA	R CHIP	1/16 1.8K OHM J 1608	Main PCB
R231	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	Main PCB	R309	HRFS182JBA	R CHIP	1/16 1.8K OHM J 1608	Main PCB
R232	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	Main PCB	R310	HRFS684JBA	R CHIP	1/16 680K OHM J 1608	Main PCB
R233	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	Main PCB	R311	HRFS122JBA	R CHIP	1/16 1.2K OHM J 1608	Main PCB
R234	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J	Main PCB	R312	HRFS182JBA	R CHIP	1/16 1.8K OHM J 1608	Main PCB
R235	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	R313	HRFS822JBA	R CHIP	1/16 8.2K OHM J 1608	Main PCB
R236	HRFS203JBA	R CHIP	1/16 20K OHM J 1608	Main PCB	R314	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB
R237	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	R315	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB
R238	HRFS203JBA	R CHIP	1/16 20K OHM J 1608	Main PCB	R316	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB
R239	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	R317	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB
R240	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	Main PCB	R318	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J	Main PCB
R241	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	Main PCB	R319	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB
R242	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	Main PCB	R320	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J	Main PCB
R243	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	Main PCB	R322	RD-AZ132J-	R CARBON FILM	1/6 1.3K OHM J	Main PCB
R244	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	R324	HRFS473JBA	R CHIP	1/16 47K OHM J 1608	Main PCB
R245	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	R325	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J	Main PCB
R253	HRFS682JBA	R CHIP	1/16 6.8K OHM J 1608	Main PCB	R326	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB
R254	HRFS563JBA	R CHIP	1/16 56K OHM J 1608	Main PCB	R329	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	Main PCB
R255	HRFS752JBA	R CHIP	1/16 7.5K OHM J 1608	Main PCB	R330	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB
R256	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J	Main PCB	R331	HRFS363JBA	R CHIP	1/16 36K OHM J 1608	Main PCB
R257	HRFS682JBA	R CHIP	1/16 6.8K OHM J 1608	Main PCB	R332	HRFS132JBA	R CHIP	1/16 1.3K OHM J 1608	Main PCB
R258	HRFS563JBA	R CHIP	1/16 56K OHM J 1608	Main PCB	R333	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB
R259	HRFS752JBA	R CHIP	1/16 7.5K OHM J 1608	Main PCB	R335	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J	Main PCB
R260	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J	Main PCB	R336	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	Main PCB
R263	RD-AZ243J-	R CARBON FILM	1/6 24K OHM J	Main PCB	R337	HRFS473JBA	R CHIP	1/16 47K OHM J 1608	Main PCB
R264	HRFS561JBA	R CHIP	1/16 560 OHM J 1608	Main PCB	R396	RD-AZ751J-	R CARBON FILM	1/6 750 OHM J	Main PCB
R265	HRFS432JBA	R CHIP	1/16 4.3K OHM J 1608	Main PCB	R401	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB
R266	HRFS561JBA	R CHIP	1/16 560 OHM J 1608	Main PCB	R402	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB
R268	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	R403	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB
R269	HRFS392JBA	R CHIP	1/16 3.9K OHM J 1608	Main PCB	R404	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J	Main PCB
R270	HRFS432JBA	R CHIP	1/16 4.3K OHM J 1608	Main PCB	R405	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J	Main PCB
R271	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB	R406	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J	Main PCB
R272	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	R407	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J	Main PCB
R273	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB	R408	HRFS272JBA	R CHIP	1/16 2.7K OHM J 1608	Main PCB
R274	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J	Main PCB	R413	HRFS182JBA	R CHIP	1/16 1.8K OHM J 1608	Main PCB
R275	HRFS682JBA	R CHIP	1/16 6.8K OHM J 1608	Main PCB	R414	HRFT112JCA	R CHIP	1/10 1.1K OHM J 2012	Main PCB
R276	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J	Main PCB	R415	HRFS152JBA	R CHIP	1/16 1.5K OHM J 1608	Main PCB
R277	HRFS682JBA	R CHIP	1/16 6.8K OHM J 1608	Main PCB	R416	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB
R282	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB	R418	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB
R283	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	R425	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB
R285	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	R426	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK
R601	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB	R851	RD-4Z123J-	R CARBON FILM	1/4 12K OHM J	Main PCB
R602	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	R852	RD-4Z123J-	R CARBON FILM	1/4 12K OHM J	Main PCB
R604	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB	R853	RD-4Z201J-	R CARBON FILM	1/4 200 OHM J	Main PCB
R605	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	R854	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J	Main PCB
R606	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	R855	HRFS272JBA	R CHIP	1/16 2.7K OHM J 1608	Main PCB
R607	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	R858	HRFS511JBA	R CHIP	1/16 510 OHM J 1608	Main PCB
R608	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	RD01	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	Main PCB
R609	HRFS122JBA	R CHIP	1/16 1.2K OHM J 1608	Main PCB	RD02	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	Main PCB
R610	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	RD03	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	Main PCB
R611	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	RD04	RD-AZ510J-	R CARBON FILM	1/6 51 OHM J	Main PCB
R612	HRFS105JBA	R CHIP	1/16 1M OHM J 1608	Main PCB	RD05	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	Main PCB
R613	HRFS201JBA	R CHIP	1/16 200 OHM J 1608	Main PCB	RD06	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	Main PCB
R614	HRFS201JBA	R CHIP	1/16 200 OHM J 1608	Main PCB	RD07	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	Main PCB
R615	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	Main PCB	RD08	HRFS333JBA	R CHIP	1/16 33K OHM J 1608	Main PCB
R616	HRFS201JBA	R CHIP	1/16 200 OHM J 1608	Main PCB	RD09	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB
R617	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	Main PCB	RD10	HRFS113JBA	R CHIP	1/16 11K OHM J 1608	Main PCB
R618	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	RD11	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB
R619	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB	RD12	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB
R620	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB	RD13	HRFS223JBA	R CHIP	1/16 22K OHM J 1608	Main PCB
R621	RD-AZ244J-	R CARBON FILM	1/6 240K OHM J	Main PCB	RD14	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	Main PCB
R622	RD-AZ244J-	R CARBON FILM	1/6 240K OHM J	Main PCB	RD16	HRFS302JBA	R CHIP	1/16 3K OHM J 1608	Main PCB
R623	RD-AZ244J-	R CARBON FILM	1/6 240K OHM J	Main PCB	RD17	HRFS221JBA	R CHIP	1/16 220 OHM J 1608	Main PCB
R624	RD-AZ244J-	R CARBON FILM	1/6 240K OHM J	Main PCB	RD18	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	Main PCB
R625	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	Main PCB	RD19	HRFS333JBA	R CHIP	1/16 33K OHM J 1608	Main PCB
R626	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	Main PCB	RD20	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB
R627	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	Main PCB	RD21	HRFS113JBA	R CHIP	1/16 11K OHM J 1608	Main PCB
R628	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	Main PCB	RD22	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB
R629	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	RD23	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB
R630	HRFS133JBA	R CHIP	1/16 13K OHM J 1608	Main PCB	RD24	HRFS223JBA	R CHIP	1/16 22K OHM J 1608	Main PCB
R631	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	RD25	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	Main PCB
R634	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB	RD27	HRFS302JBA	R CHIP	1/16 3K OHM J 1608	Main PCB
R635	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	Main PCB	RD28	HRFS221JBA	R CHIP	1/16 220 OHM J 1608	Main PCB
R637	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J	Main PCB	RD29	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	Main PCB
R639	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	RD30	HRFS303JBA	R CHIP	1/16 30K OHM J 1608	Main PCB
R640	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	RD31	HRFS202JBA	R CHIP	1/16 2K OHM J 1608	Main PCB
R646	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	Main PCB	RD32	HRFS432JBA	R CHIP	1/16 4.3K OHM J 1608	Main PCB
R648	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB	RD33	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB
R649	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	Main PCB	RD34	HRFS751JBA	R CHIP	1/16 750 OHM J 1608	Main PCB
R651	HRFS332JBA	R CHIP	1/16 3.3K OHM J 1608	Main PCB	RD35	HRFS473JBA	R CHIP	1/16 47K OHM J 1608	Main PCB
R652	HRFS131JBA	R CHIP	1/16 130 OHM J 1608	Main PCB	RD36	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	Main PCB
R653	HRFS131JBA	R CHIP	1/16 130 OHM J 1608	Main PCB	RD37	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	Main PCB
R654	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	RD39	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB
R655	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	RD40	HRFS203JBA	R CHIP	1/16 20K OHM J 1608	Main PCB
R656	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB	RD41	HRFS473JBA	R CHIP	1/16 47K OHM J 1608	Main PCB
R657	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	RD42	HRFS203JBA	R CHIP	1/16 20K OHM J 1608	Main PCB
R658	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	Main PCB	RD43	HRFS473JBA	R CHIP	1/16 47K OHM J 1608	Main PCB
R659	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J	Main PCB	RD44	HRFS512JBA	R CHIP	1/16 5.1K OHM J 1608	Main PCB
R660	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J	Main PCB	RD45	HRFS912JBA	R CHIP	1/16 9.1K OHM J 1608	Main PCB
R661	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	RD47	HRFS752JBA	R CHIP	1/16 7.5K OHM J 1608	Main PCB
R662	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Main PCB	RD48	HRFS562JBA	R CHIP	1/16 5.6K OHM J 1608	Main PCB
R663	RD-AZ431J-	R CARBON FILM	1/6 430 OHM J	Main PCB	RD49	HRFS752JBA	R CHIP	1/16 7.5K OHM J 1608	Main PCB
R664	RN-AZ103F-	R METAL FILM	1/6 10K OHM F	Main PCB	RD50	HRFS562JBA	R CHIP	1/16 5.6K OHM J 1608	Main PCB
R665	RN-AZ103F-	R METAL FILM	1/6 10K OHM F	Main PCB	RD52	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB
R666	RD-AZ912J-	R CARBON FILM	1/6 9.1K OHM J	Main PCB	RD53	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB
R667	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	Main PCB	RD55	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB

ELECTRICAL PARTSLIST

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK
RD56	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	S604	97P0S02500	SENSOR REEL	RPI-303N	Main PCB
RD58	HRFS181JBA	R CHIP	1/16 180 OHM J 1608	Main PCB	SW601	5SD0101100	SW DETE	MXS00921MPC0	Main PCB
RD59	HRFS181JBA	R CHIP	1/16 180 OHM J 1608	Main PCB	SW651	5S10104100	SW MODE	MMS00402ZMB0	Main PCB
RD63	HRFS512JBA	R CHIP	1/16 5.1K OHM J 1608	Main PCB	U001	97P65336MA	PCB MAIN	330X246X1.6T	Main PCB
RD64	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	X301	5XE3R579TB	CRYSTAL QUARTZ	HC-49/U 3.579545MHZ 15PPM	Main PCB
RD65	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	Z001	PVMPMSN669	PCB MAIN AS	DR-C9A21N-BS	Main PCB
RD66	HRFS912JBA	R CHIP	1/16 9.1K OHM J 1608	Main PCB	Z001A	7173300811	SCREW TAPPTITE	TT2 BIN 3X8 MFZN	Main PCB
RD67	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J	Main PCB	AL06	97P4220200	CUSHION LEG	EVA T4.0	Front PCB
RD68	HRFS181JBA	R CHIP	1/16 180 OHM J 1608	Main PCB	C701	CCZB1H221K	C CERA	50V B 220PF K (AXIAL)	Front PCB
RD71	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	Main PCB	C702	CCZB1H221K	C CERA	50V B 220PF K (AXIAL)	Front PCB
RD76	HRFS153JBA	R CHIP	1/16 15K OHM J 1608	Main PCB	C703	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	Front PCB
RF101	97P7619700	TUNER 3 IN 1	ALTMI-US5	Main PCB	C704	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	Front PCB
RF102	97P7620100	TUNER AM/FM RADIO MODULE	KST-MV001MV0-2	Main PCB	C705	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	Front PCB
RJ001	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	C720	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	Front PCB
RJ002	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	C721	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	Front PCB
RJ003	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	C722	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	Front PCB
RJ005	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	C731	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	Front PCB
RJ006	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	D705	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RJ007	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	D706	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RJ008	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	D707	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RJ009	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	D708	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RJ010	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	D709	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RJ011	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	D710	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RJ012	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	D711	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RJ013	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	D712	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RJ014	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	D720	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RJ016	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	D721	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RJ018	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	D722	DSRM5670A-	LED LAMP	SRM5670-A,2COLOR(RED,GRN)	Front PCB
RJ019	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	D723	DSRM5670A-	LED LAMP	SRM5670-A,2COLOR(RED,GRN)	Front PCB
RJ020	HRFS000-BA	R CHIP	1/16 0 OHM 1608	Main PCB	D724	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RM08	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	Main PCB	D725	DZUZ7R5BSC	DIODE ZENER	UZ-7.5BSC(7.33-7.64)	Front PCB
RM09	HRFS333JBA	R CHIP	1/16 33K OHM J 1608	Main PCB	D726	DZUZ7R5BSC	DIODE ZENER	UZ-7.5BSC(7.33-7.64)	Front PCB
RM10	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	Main PCB	D727	DZUZ7R5BSC	DIODE ZENER	UZ-7.5BSC(7.33-7.64)	Front PCB
RM11	HRFS333JBA	R CHIP	1/16 33K OHM J 1608	Main PCB	D731	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)	Front PCB
RM43	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	D732	DZUZ7R5BSC	DIODE ZENER	UZ-7.5BSC(7.33-7.64)	Front PCB
RM44	RD-AZ113J-	R CARBON FILM	1/6 11K OHM J	Main PCB	D733	DZUZ7R5BSC	DIODE ZENER	UZ-7.5BSC(7.33-7.64)	Front PCB
RM45	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	D734	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RM46	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	D735	DZN4148 -	DIODE	1N4148 AUTO 52MM	Front PCB
RM47	HRFS473JBA	R CHIP	1/16 47K OHM J 1608	Main PCB	G701	DHNA12SM56	DIGITRON	HNA-12SM56	Front PCB
RM48	RD-AZ100J-	R CARBON FILM	1/6 10 OHM J	Main PCB	G701A	97P2348400	HOLDER DIGITRON	ABS	Front PCB
RM49	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	Main PCB	G702	5S10102001	SW ROTARY	EC12E24204A9	Front PCB
RM50	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	Main PCB	H701	10RC356HF6	IC UNIT R/RECEIVER	ORC-356HF6	Front PCB
RM52	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	Main PCB	IC701	1PT6315 Q	IC VFD DRIVER	PT6315 44PIN LQFP	Front PCB
RM53	HRFS113JBA	R CHIP	1/16 11K OHM J 1608	Main PCB	JK01A	97P0991600	PLATE EARTH A/V	C5210(PBS) T0.2	Front PCB
RM54	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	JK02A	97P0994800	PLATE EARTH PHONE	C5210(PBS) T0.2(1/2H)	Front PCB
RM55	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	JK701	97P6316900	JACK PIN	DPSE-9946	Front PCB
RM56	HRFS473JBA	R CHIP	1/16 47K OHM J 1608	Main PCB	JK702	97P6316100	JACK HEAD PHONE	DHSE-9959	Front PCB
RM57	RD-AZ100J-	R CARBON FILM	1/6 10 OHM J	Main PCB	JP701	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB
RM58	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	JP702	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB
RM59	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Main PCB	JP703	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB
RM60	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	JP704	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB
RS04	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	Main PCB	JP705	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB
RS05	85801060TA	WIRE COPPER	0.6X52MM TAPING	Main PCB	JP706	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB
RS06	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J	Main PCB	JP707	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB
S603	97P0S02500	SENSOR REEL	RPI-303N	Main PCB	JP708	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK
JP709	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	R731	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	Front PCB
JP710	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW701	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP711	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW702	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP712	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW703	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP713	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW704	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP714	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW705	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP715	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW706	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP716	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW707	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP717	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW708	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP718	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW709	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP719	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW710	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP720	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW711	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP721	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW712	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP722	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW713	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP723	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW714	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP724	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	SW715	5S50101Z90	SW TACT	THVV502GDA	Front PCB
JP725	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	UL01	97P65341UA	PCB UNION	330X246X1.6T/3	Front PCB
JP726	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	Z003	PVLAMSN695	PCB LOGIC MANUAL AS	DR-C91D1N-BS	Front PCB
JP727	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	BF241	HLB601M01B	L CHIP BEAD	600 OHM BK HS 2012	AMP PCB
JP728	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	BF242	HLB601M01B	L CHIP BEAD	600 OHM BK HS 2012	AMP PCB
JP729	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	BF243	HLB601M01B	L CHIP BEAD	600 OHM BK HS 2012	AMP PCB
JP730	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	BF244	HLB601M01B	L CHIP BEAD	600 OHM BK HS 2012	AMP PCB
JP731	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	BF245	HLB601M01B	L CHIP BEAD	600 OHM BK HS 2012	AMP PCB
JP732	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	BF246	HLB601M01B	L CHIP BEAD	600 OHM BK HS 2012	AMP PCB
JP733	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C200	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	AMP PCB
JP734	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C210	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
JP735	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C211	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	AMP PCB
JP736	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C212	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	AMP PCB
JP737	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C213	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
JP738	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C214	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
JP739	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C215	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	AMP PCB
JP740	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C216	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	AMP PCB
JP741	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C217	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
JP742	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C221	HCQK390JBA	C CHIP CERA	50V CH 39PF J 1608	AMP PCB
JP743	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C222	HCQK390JBA	C CHIP CERA	50V CH 39PF J 1608	AMP PCB
JP744	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C223	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
JP745	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C227	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
JP746	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C228	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
JPA30	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C231	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
JPA44	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Front PCB	C232	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
L701	85801060TA	WIRE COPPER	0.6X52MM TAPING	Front PCB	C234	HCQK470JBA	C CHIP CERA	50V CH 47PF J 1608	AMP PCB
L702	85801060TA	WIRE COPPER	0.6X52MM TAPING	Front PCB	C240	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
P701	97P62M13DM	CONN WAFER	52492-2120 21P RA 1.25	Front PCB	C241	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
P702	97P62G08E9	CONN FFC	GF102-09S-TS 09P ST	Front PCB	C242	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	AMP PCB
P702A	97P88FB904	CABLE FFC	1.0 R 9P 40MM	Front PCB	C243	HCBK122KBA	C CHIP CERA	50V X7R 1200PF K 1608	AMP PCB
P703	97P62G09E9	CONN FFC	GF106-09S-LS 09P RA	Front PCB	C244	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	AMP PCB
R701	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Front PCB	C245	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	AMP PCB
R702	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Front PCB	C246	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	AMP PCB
R704	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Front PCB	C247	CEXP1A101A	C ELECTRO	10V REM 100MF 6.3X5 5T	AMP PCB
R705	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	Front PCB	C248	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
R721	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	Front PCB	C249	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
R722	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J	Front PCB	C250	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
R723	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J	Front PCB	C251	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
R724	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	Front PCB	C252	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
R725	RD-AZ823J-	R CARBON FILM	1/6 82K OHM J	Front PCB	C253	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB

ELECTRICAL PARTSLIST

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK
C254	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	C360	CEXF1H102V	C ELECTRO	50V RSS 1000MF (16X25) TP	AMP PCB
C255	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	C361	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
C256	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	C362	CEXP1A101A	C ELECTRO	10V REM 100MF 6.3X5 5T	AMP PCB
C257	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	C363	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
C258	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	C364	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012	AMP PCB
C259	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	C365	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012	AMP PCB
C300	CEXF1H222C	C ELECTRO	50V RUS 2200MF	AMP PCB	C366	HCTDK109MC	C CHIP TANTAL	50V 1MF M 6032	AMP PCB
C301	CEXP1A101A	C ELECTRO	10V REM 100MF 6.3X5 5T	AMP PCB	C367	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012	AMP PCB
C302	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	C368	HCTDK109MC	C CHIP TANTAL	50V 1MF M 6032	AMP PCB
C303	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	C369	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012	AMP PCB
C304	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	C370	HCQK331JCA	C CHIP CERA	50V CH 330PF J 2012	AMP PCB
C305	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	C371	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB
C306	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012	AMP PCB	C372	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB
C307	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012	AMP PCB	C373	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB
C308	HCTDK109MC	C CHIP TANTAL	50V 1MF M 6032	AMP PCB	C374	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB
C309	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012	AMP PCB	C375	CMXL1J474J	C MYLAR	63V MEU 0.47MF J	AMP PCB
C310	HCTDK109MC	C CHIP TANTAL	50V 1MF M 6032	AMP PCB	C376	HCQK331JCA	C CHIP CERA	50V CH 330PF J 2012	AMP PCB
C311	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012	AMP PCB	C377	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB
C312	CEXF1H102V	C ELECTRO	50V RSS 1000MF (16X25) TP	AMP PCB	C378	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB
C313	HCQK331JCA	C CHIP CERA	50V CH 330PF J 2012	AMP PCB	C379	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB
C314	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	C380	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB
C315	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	C382	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
C316	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	C383	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB
C317	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	C384	CMXL1J474J	C MYLAR	63V MEU 0.47MF J	AMP PCB
C318	CMXL1J474J	C MYLAR	63V MEU 0.47MF J	AMP PCB	D223	DZN4004 -	DIODE	1N4004(AUTO)	AMP PCB
C320	HCQK331JCA	C CHIP CERA	50V CH 330PF J 2012	AMP PCB	I301B	97P4408900	HEAT SINK AMP	AL T1.5	AMP PCB
C321	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	I301C	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	AMP PCB
C322	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	I330B	97P4408900	HEAT SINK AMP	AL T1.5	AMP PCB
C323	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	I330C	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	AMP PCB
C324	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	I360B	97P4408900	HEAT SINK AMP	AL T1.5	AMP PCB
C326	CMXL1J474J	C MYLAR	63V MEU 0.47MF J	AMP PCB	I360C	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	AMP PCB
C330	CEXF1H102V	C ELECTRO	50V RSS 1000MF (16X25) TP	AMP PCB	IC200	1DDX8000-Q	IC AMP PROCESS	DDX-8000 TQFP 64 PIN TRAY	AMP PCB
C331	CEXP1A101A	C ELECTRO	10V REM 100MF 6.3X5 5T	AMP PCB	IC210	1RC1117S3C	IC CHIP REGULATOR	RC1117S33T 3.3V SOT 223	AMP PCB
C332	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	IC211	1RC1117S2C	IC CHIP REGULATOR	RC1117S25C 2.5V SOT 223	AMP PCB
C333	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	IC220	1W78E58B-P	IC CHIP MICOM	W78E58BP 44PIN PLCC TYPE	AMP PCB
C334	HCTDK109MC	C CHIP TANTAL	50V 1MF M 6032	AMP PCB	IC221	14CAT2408J	IC EEPROM	CAT24WC08J(8K SOP)	AMP PCB
C335	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012	AMP PCB	IC222	1 S 7 1 4 2	IC RESET	S7142	AMP PCB
C336	HCTDK109MC	C CHIP TANTAL	50V 1MF M 6032	AMP PCB	IC301	1DDX2100-E	IC AMP POWER	DDX-2100 SO-36SU REEL	AMP PCB
C337	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012	AMP PCB	IC330	1DDX2100-E	IC AMP POWER	DDX-2100 SO-36SU REEL	AMP PCB
C338	HCQK331JCA	C CHIP CERA	50V CH 330PF J 2012	AMP PCB	IC360	1DDX2100-E	IC AMP POWER	DDX-2100 SO-36SU REEL	AMP PCB
C339	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	J200	97P885X194	CONN AS	6H-6S 100MM	AMP PCB
C340	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	J210	97P62A09A5	CONN WAFER	440052-5 PLUG 5P 2.5	AMP PCB
C341	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	JK200	97P6318390	JACK TERMINAL	PA1220371P	AMP PCB
C342	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	L301	56C181L001	COIL CHOKE	CH-180	AMP PCB
C343	CMXL1J474J	C MYLAR	63V MEU 0.47MF J	AMP PCB	L302	56C181L001	COIL CHOKE	CH-180	AMP PCB
C344	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012	AMP PCB	L303	56C181L001	COIL CHOKE	CH-180	AMP PCB
C345	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012	AMP PCB	L304	56C181L001	COIL CHOKE	CH-180	AMP PCB
C346	HCQK331JCA	C CHIP CERA	50V CH 330PF J 2012	AMP PCB	L331	56C181L001	COIL CHOKE	CH-180	AMP PCB
C347	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	L332	56C181L001	COIL CHOKE	CH-180	AMP PCB
C348	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	L333	56C181L001	COIL CHOKE	CH-180	AMP PCB
C349	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	L334	56C181L001	COIL CHOKE	CH-180	AMP PCB
C350	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	AMP PCB	L361	56C181L001	COIL CHOKE	CH-180	AMP PCB
C352	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	L362	56C181L001	COIL CHOKE	CH-180	AMP PCB
C353	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	AMP PCB	L363	56C181L001	COIL CHOKE	CH-180	AMP PCB
C354	CMXL1J474J	C MYLAR	63V MEU 0.47MF J	AMP PCB	L364	56C181L001	COIL CHOKE	CH-180	AMP PCB

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK
P200	97P62G08E7	CONN FFC	GF102-07S-TS 07P ST	AMP PCB	R298	HRFS243JBA	R CHIP	1/16 24K OHM J 1608	AMP PCB
P201	97P62G08EV	CONN FFC	GF102-29S-TS 29P ST	AMP PCB	R299	HRFS473JBA	R CHIP	1/16 47K OHM J 1608	AMP PCB
P301	97P62G08EB	CONN FFC	GF102-11S-TS 11P ST	AMP PCB	R300	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	AMP PCB
Q201	TZRC104M	TR	KRC104M AUTO	AMP PCB	R302	HRFT390JCA	R CHIP	1/10 39 OHM J 2012	AMP PCB
Q202	TZRC104M	TR	KRC104M AUTO	AMP PCB	R303	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	AMP PCB
R1240	HRFS470JBA	R CHIP	1/16 47 OHM J 1608	AMP PCB	R304	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	AMP PCB
R1241	HRFS470JBA	R CHIP	1/16 47 OHM J 1608	AMP PCB	R306	HRFT390JCA	R CHIP	1/10 39 OHM J 2012	AMP PCB
R1244	HRFS470JBA	R CHIP	1/16 47 OHM J 1608	AMP PCB	R307	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	AMP PCB
R1245	HRFS470JBA	R CHIP	1/16 47 OHM J 1608	AMP PCB	R308	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	AMP PCB
R204	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R309	HRFT390JCA	R CHIP	1/10 39 OHM J 2012	AMP PCB
R205	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R310	HRFT390JCA	R CHIP	1/10 39 OHM J 2012	AMP PCB
R210	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R311	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	AMP PCB
R211	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R312	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	AMP PCB
R213	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R330	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	AMP PCB
R214	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R331	HRFS473JBA	R CHIP	1/16 47K OHM J 1608	AMP PCB
R215	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R334	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	AMP PCB
R216	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R335	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	AMP PCB
R217	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R336	HRFT390JCA	R CHIP	1/10 39 OHM J 2012	AMP PCB
R218	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R337	HRFT390JCA	R CHIP	1/10 39 OHM J 2012	AMP PCB
R220	HRFS000-BA	R CHIP	1/16 0 OHM 1608	AMP PCB	R338	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	AMP PCB
R221	HRFS105JBA	R CHIP	1/16 1M OHM J 1608	AMP PCB	R339	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	AMP PCB
R222	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	AMP PCB	R340	HRFT390JCA	R CHIP	1/10 39 OHM J 2012	AMP PCB
R223	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R341	HRFT390JCA	R CHIP	1/10 39 OHM J 2012	AMP PCB
R224	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	AMP PCB	R342	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	AMP PCB
R225	HRFS000-BA	R CHIP	1/16 0 OHM 1608	AMP PCB	R343	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	AMP PCB
R226	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R360	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	AMP PCB
R227	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	AMP PCB	R362	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	AMP PCB
R230	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	AMP PCB	R364	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	AMP PCB
R231	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	AMP PCB	R365	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	AMP PCB
R233	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	AMP PCB	R366	HRFT390JCA	R CHIP	1/10 39 OHM J 2012	AMP PCB
R234	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	AMP PCB	R367	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	AMP PCB
R240	HRFS470JBA	R CHIP	1/16 47 OHM J 1608	AMP PCB	R368	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	AMP PCB
R241	HRFS470JBA	R CHIP	1/16 47 OHM J 1608	AMP PCB	R369	HRFT390JCA	R CHIP	1/10 39 OHM J 2012	AMP PCB
R242	HRFS470JBA	R CHIP	1/16 47 OHM J 1608	AMP PCB	R370	HRFT390JCA	R CHIP	1/10 39 OHM J 2012	AMP PCB
R243	HRFS470JBA	R CHIP	1/16 47 OHM J 1608	AMP PCB	R371	HRFT390JCA	R CHIP	1/10 39 OHM J 2012	AMP PCB
R244	HRFS221JBA	R CHIP	1/16 220 OHM J 1608	AMP PCB	R372	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	AMP PCB
R245	HRFS470JBA	R CHIP	1/16 47 OHM J 1608	AMP PCB	R373	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012	AMP PCB
R246	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	AMP PCB	U001	97P65336AA	PCB AMP	280X220X1.6T/2	AMP PCB
R247	HRFS682JBA	R CHIP	1/16 6.8K OHM J 1608	AMP PCB	X220	5XE12R000E	CRYSTAL QUARTZ	HC-49/U 12.00000MHZ 30PPM	AMP PCB
R248	HRFS682JBA	R CHIP	1/16 6.8K OHM J 1608	AMP PCB	Z010	PVAMMSN669	PCB AMP MANUAL AS	DR-C9A21N-BS	AMP PCB
R249	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	AMP PCB					

ELECTRICAL PARTSLIST

✎ Panel / Deck / DVD / Speaker system & etc.

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCRIPTION	REMARK
SP01	48A83084A2	SPEAKER SYSTEM	HTWCFR-300BA2	300 Watt	A3001	7274300811	SCREW TAPPTITE	TT3 RND 3X8 MFZN	Deck
SP01	48A83078A2	SPEAKER SYSTEM	HTWCFR-200BA2	200 Watt	AD001	97PA296001	DRUM PRICE AS	CYN-T610R	Deck
M100	97QD020200	TOTAL DVD	RL-S900(MECHA+SERVO+MPEG) TCE	DVD	AD002	7003300511	SCREW MACHINE	BIN 3X5 MFZN	Deck
M101	97PB253200	DVD DOOR AS	25901+09500 DR-C91D1N-BS	DVD (DR-C913B / C912B)	AF001	97SA261070	F/L AS	TCE-COMBO	Deck
M101	97PB253300	DOOR DVD AS	26700+09500 DR-C9A21N-BS	DVD(DR-C923B/ C922B)	AF002	7273300511	SCREW TAPPTITE	TT3 BIN 3X5 MFZN	Deck
A0100	97SA332200	MAIN BASE AS	T4.5-MECHA	Deck	B0610	97SA326800	HEAD A/C	HVMXA1101A(ALPS)	Deck
A0101	97S3102000	SCREW TAPPTITE	TT2 BIN-P 2.6X7 MFZN	Deck	B1910	97SA481050	PINCH ROLLER AS	D15(DAEJIN D2.6*D7*T4.5)	Deck
A0200	97SA316500	S SLANT POLE AS	T-MECHA	Deck	B2040	97P885X146	CONN AS	A/C HEAD(6P) SHIELD	Deck
A0300	97SA316600	T SLANT POLE AS	T-MECHA	Deck	M1000	PVDKARNB66	DECK VCR AS(T50,F/L)	DRN-T610R NON, F/L	Deck
A0400	97S8104200	MOTOR CAPSTAN	F2QVB37K	Deck	M100B	7174301211	SCREW TAPPTITE	TT2 RND 3X12 MFZN	Deck
A0600	97SA320500	AC HEAD AS	T-MECHA	Deck	A001	97P0612810	CHASSIS MAIN	HIPS(VO)	Chassis & Panel
A0601	7003300511	SCREW MACHINE	BIN 3X5 MFZN	Deck	A0041	7173300812	SCREW TAPTITE	TT2 BIN 3X8 BK	Chassis & Panel
A1000	97SA316800	L LOADING AS	T-MECHA	Deck	A0042	7173300812	SCREW TAPTITE	TT2 BIN 3X8 BK	Chassis & Panel
A1100	97SA316900	R LOADING AS	T-MECHA	Deck	A0051	97P4220200	CUSHION LEG	EVA T4.0	Chassis & Panel
A1200	97S2709510	RACK LOADING	SECC T1.2	Deck	A0052	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	Chassis & Panel
A1201	7008301911	SCREW MACHINE	WAS M3*19 MFZN	Deck	A0053	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	Chassis & Panel
A1400	97S0904310	PLATE CONNECT-H	SECC T1.0	Deck	A006	97P0991200	EARTH BOTTOM	SUS 304CSP T0.2	Chassis & Panel
A1500	97SA319410	REEL BRKT TOTAL AS	T2-MECHA	Deck	A006A	97P0992300	PLATE EARTH COAXIAL	SUS 304 CSP T0.15	Chassis & Panel
A1501	7273300511	SCREW TAPPTITE	TT3 BIN 3X5 MFZN	Deck	A006B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	Chassis & Panel
A1700	97S5500400	BELT REEL	CR68	Deck	A040	97P0482110	COVER TOP	SECC T0.6+PAINT	Chassis & Panel
A1800	97S2623200	LEVER RELAY	SECC T1.2	Deck	A040A	97P4219500	CUSHION TOP	EVA 20X14	Chassis & Panel
A1900	97S2709600	RACK FL	PBT(DY4410GF) NATURAL	Deck	A040B	97P4219700	CUSHION TOP PLATE	EVA(SOFT) T=1 175*8	Chassis & Panel
A2000	97S2708200	GEAR CAM	DERLIN 100	Deck	A060	97P0482204	COVER BOTT0M	SECC T0.8,RECIVER,PHONE(9P)	Chassis & Panel
A2100	97SA317150	PINCH LEVER TOT AS	T-MECHA	Deck	A061	97P0993000	PLATE A/V BACK	PVC T0.5	Chassis & Panel
A2200	97SA318050	LC BRKT AS	T5-MECHA	Deck	AJ01A	7173300812	SCREW TAPTITE	TT2 BIN 3X8 BK	Chassis & Panel
A2201	7273300611	SCREW TAPPTITE	TT3 BIN 3X6 MFZN	Deck	AP01A	7173300811	SCREW TAPPTITE	TT2 BIN 3X8 MFZN	Chassis & Panel
A2400	97SA317310	IDLER PLATE TOT AS	T2-MECHA	Deck	AZ01A	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN	Chassis & Panel
A2401	97S3108200	POLYWASHER	D2.6XD6.0XT0.5	Deck	D100	97P1R2UCA0	REMOCON HANDSET AS	VR-F2UCA0 GY340A(AAA)	Chassis & Panel
A2600	97S2909400	TABLE REEL	POM(F20-03) BLACK	Deck	M01	97PP329010	PANEL FRONT AS	DR-C91D1N-BS	(DR-C913B / C912B)
A2700	97SA317200	TENSION LVR TOT AS	T-MECHA	Deck	M01	97PP323010	PANEL FRONT AS	DR-C92D1D-QB(V0), HALF MIRROR	(DR-C923B / C922B)
A2800	97SA317400	S BRAKE AS	T-MECHA	Deck	M011	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN	Chassis & Panel
A2900	97SA317510	T BRAKE AS	T2-MECHA	Deck	M021	7173401211	SCREW TAPPTITE	TT2 BIN 4X12 MFZN	Chassis & Panel
A3000	97S8023700	HEAD FE	HVFHP0042A	Deck	M022	7174301211	SCREW TAPPTITE	TT2 RND 3X12 MFZN	Chassis & Panel

DAEWOO

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